STR-D1011S

SERVICE MANUAL

US Model

SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 120 watts per channel minimum RMS power, with no more than 0.04 % total harmonic distortion from 250 milliwatts to rated output.

	Surround mode (8 ohms)
FRONT (at 1 kHz)	80 W/ch
CENTER* (at 1 kHz)	80 W
REAR (at 1 kHz)	30 W/ch

* (only in the DOLBY SUR, THEATER and LIVE modes)

Other Specifications

Amplifier section (Front)

Continuous RMS power output (8 ohms, at 20 Hz-20 kHz)
130 W + 130 W

Dynamic power output (in the stereo mode)	8 ohms, at 1 kHz IHF	185 W + 185 W
	4 ohms, at 1 kHz IHF	235 W + 235 W

Frequency response	PHONO	RIAA equalization curve ±0.5 dB
	CD, DAT, TAPE 1,2 VIDEO 1,2,3	10 Hz - 20 kHz $^{+0}_{-1}$ dB
Damping factor (8 ohms, at 1kHz)		50
Input sensitivity/ impedance	PHONO MM	2.5 mV, 50 kilohms
	CD,DAT, TAPE 1,2 VIDEO 1,2,3	250 mV 50 kilohms
S/N	PHONO MM	87 dB 79 dB** (A,2.5mV)
	CD, DAT TAPE 1,2 VIDEO 1,2,3	105 dB 85 dB** (A,150mV)
Output sensitivity/ impedance	DAT OUT, TAPE OUT 1,2 VIDEO 1	250 mV 10 kilohms
	HEADPHONES	Accepts headphones of high and low impedance
MUTING		–20dB
DBFB		+10 dB at 70Hz

** '78IHF

使用時は添付資料も参照のこと
Refer to the additional documents.

FM STEREO/FM-AM RECEIVER

SONY

Digital signal processor section

Modulation (A/D conversion)		High Density Linear Converter
Demonstration (D/A conversion)		High Density Linear Converter (Pulse D/A Converter)
Sampling frequency		48 kHz
Equalizer	Band	3-band, Bass/Treble/Mid
	Turnover frequency	Bass: 125 Hz - 1 kHz Treble: 1 kHz - 8 kHz
	Center frequency	Mid: 54 Hz – 8 kHz
	Level	±10 dB, 1 dB step
	Slope (Q)	3-step selectable, Wide, Mid, Narrow
Surround	ROOM SIZE	16-step adjustable
	WALL	16-step adjustable
	SEAT POSITION F/R	16-step adjustable
	SEAT POSITION L/R	16-step adjustable
	EFFECT LEVEL	20-step adjustable
	REVERB TIME	16-step adjustable
	DELAY TIME**	15.0 ms-30.0 ms, 0.1 ms step
	REAR LEVEL	+10 — –50 dB, 1 dB step
	CENTER LEVEL***	+10 — –50 dB, 1 dB step
	INPUT BALANCE	Automatic

** (only in the DOLBY SUR mode)
*** (only in the DOLBY SUR, THEATER and LIVE modes)

FM tuner section

Frequency range		87.5 - 108.0 MHz
Antenna terminals		75 ohms, unbalanced
Sensitivity at 50 dB		18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)
Usable sensitivity		11.2 dBf, 2 µV (IHF)
S/N	Mono	80 dB
	Stereo	74 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
IM distortion	Mono	0.3 %
	Stereo	0.5 %
Separation		45 dB at 1 kHz
Frequency response		30 Hz - 15 kHz $^{+0}_{-2}$dB
Selectivity		60 dB at 400 kHz
Capture ratio		1.2 dB
AM suppression ratio		54 dB
Image response ratio		70 dB
IF response ratio		70 dB
Spurious response ratio		80 dB
RF intermodulation at 800 kHz		60 dB
Auto tuning threshold	Low	30 dBf
	High	50 dBf

AM tuner section

Frequency range	530 - 1,710 kHz (with 10 kHz interval) 531 - 1,710 kHz (with 9 kHz interval)
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)
Auto tuning threshold	55 dB/m

Video section

Inputs	VIDEO 1,2,3: 1 Vp-p 75 ohms
Outputs	VIDEO 1, MONITOR: 1 Vp-p 75 ohms

General

System	Tuner section	PLL quartz-locked digital synthesizer system
	Preamplifier section	Low-noise NF type equalizer
	Power amplifier section	Pure-complimentary SEPP
Power requirements		120 V AC,60 Hz
Power consumption		260 W
AC outlets		Two switched, total 120 W/1 A max.
Dimensions (including projecting parts and controls)		Approx. 430 x 148 x 385 mm (w/h/d) (17 x 5 $^{13}/_{16}$ x 15 $^{3}/_{16}$ inches)
Mass		Approx. 13.2 kg (29 lb 2 oz)

Supplied accessories
FM wire antenna (1)
AM loop antenna (1)
Remote commander (1)
Sony Batteries SUM-3(NS) (2)
4-p flat cord (1)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

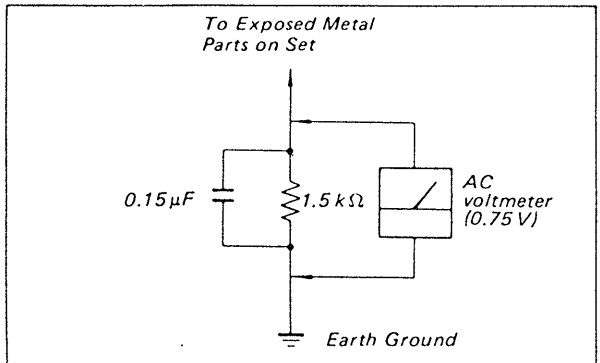


Fig. A. Using an AC voltmeter to check AC leakage.

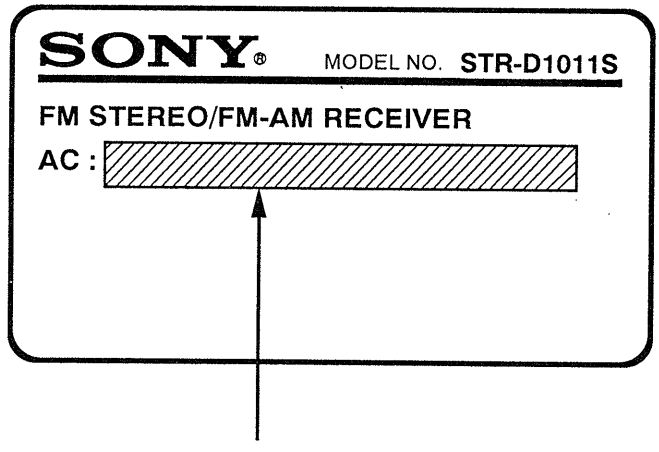
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

Section	Title	Page
Specification		1
1.	GENERAL	4
2.	DISASSEMBLY	8
3.	ELECTRICAL ADJUSTMENT	9
4.	DIAGRAMS	
4-1.	Circuit Boards Location	11
4-2.	Semiconductor Lead Layouts	12
4-3.	Printed Wiring Boards – TUNER Section –	12
4-4.	Schematic Diagrams – TUNER Section –	15
4-5.	Schematic Diagrams – MAIN Section –	19
4-6.	Printed Wiring Boards – MAIN Section –	23
4-7.	Schematic Diagrams – DIGITAL Section –	28
4-8.	Printed Wiring Boards – DIGITAL Section –	33
4-9.	Printed Wiring Boards – DISPLAY Section –	36
4-10.	Schematic Diagrams – DISPLAY Section –	39
5.	EXPLODED VIEWS	
5-1.	Front Panel Section	42
5-2.	Chassis Section	43
5-3.	Main Board Section	44
6.	ELECTRICAL PARTS LIST	45

MODEL IDENTIFICATION
(Specification Label)



US model : 120V~60Hz 260W

Introduction

Overview

The STR-D1011S is an FM Stereo/FM-AM receiver and audio/video control center.
You can enjoy various audio/video program sources with this unit.

TV/video programs
- You can enjoy TV or CATV programs with FM simulcast.
- Sounds from various audio program sources can be added on video tapes during editing.

Tuner
- Precise tuning is ensured by a quartz locked digital synthesizer.
- Station index system allows you to tune into a station quickly.

Digital surround processor
- The STR-D1011S electronically reproduces the reflected sound (early reflection) and reverberation sound (reverberation) by using its digital signal processor, and allows you to obtain the acoustics of various situations.
- **DOLBY* PRO LOGIC**: The STR-D1011S incorporates the Dolby Pro Logic Surround Decoder which has the same functions for playback as movie theaters and gives a theater-like experience in your listening room, naturally reproducing the audio sound field.

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "DOLBY", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

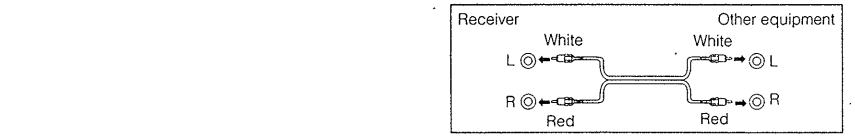
Digital parametric equalizer
You can enjoy audio program sources with appropriate equalization curve by controlling the level of the desired 3 frequency bands.

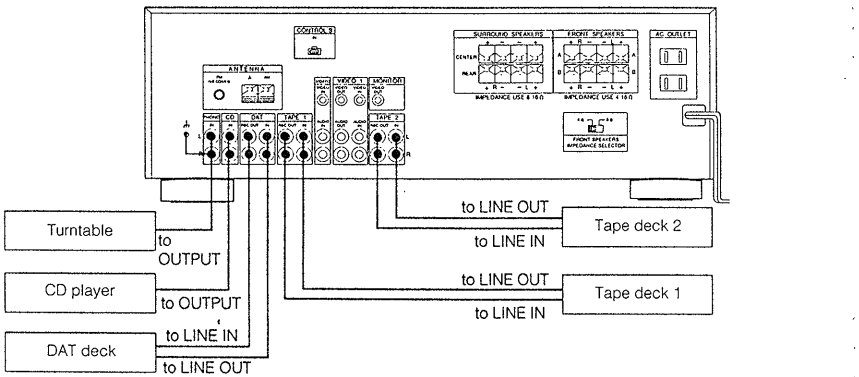
Sound field
- 10 recommended sound field programs (combination of surround and parametric equalizer settings) are preset in the factory for easy use. You can also store up to 10 settings you created in the memory.
- Combined use of the sound field programs and the preset stations allow you to enjoy broadcast listening immediately with the memorized sound field settings.

The FUNCTION/SOUND FIELD/PRESET TUNING buttons
There are two kinds of modes for the FUNCTION/SOUND FIELD/PRESET TUNING buttons. One is the "Auto mode" and the other is the "Manual mode". With these modes, you can conveniently operate this receiver.
This manual describes the operations in the auto mode.

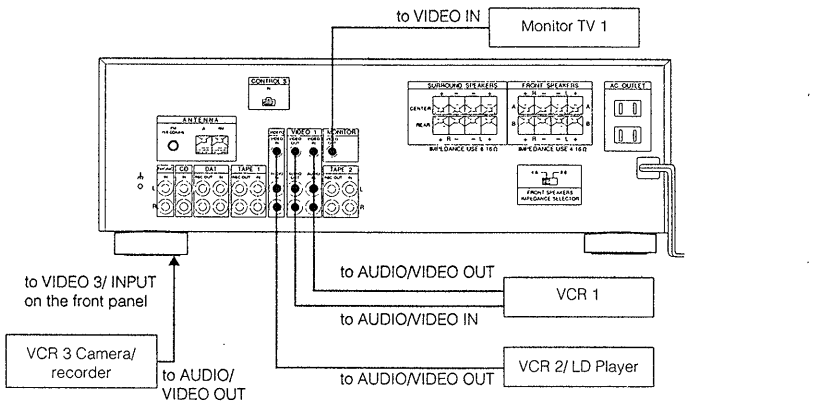
Remote commander supplied
This unit is supplied with the remote commander.
For the instruction of the remote commander for Canada model, see the operating instructions of the separate volume.

Connecting Audio Equipment





Connecting Video Equipment

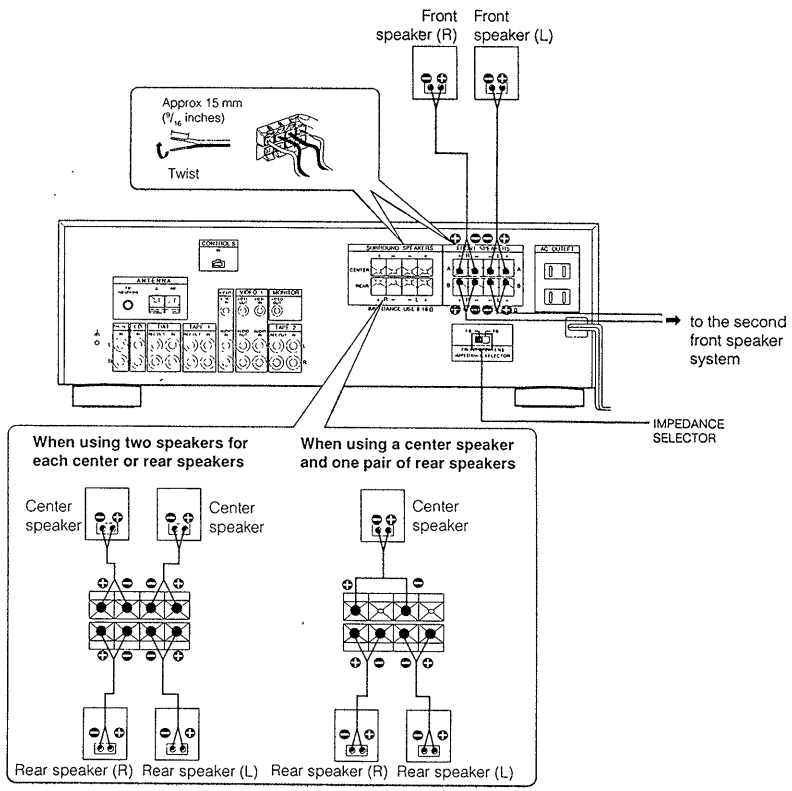


This section is extracted from instruction manual.

Hooking Up the System

Connecting Speaker Systems

Front, center and rear speakers can be connected to this unit.



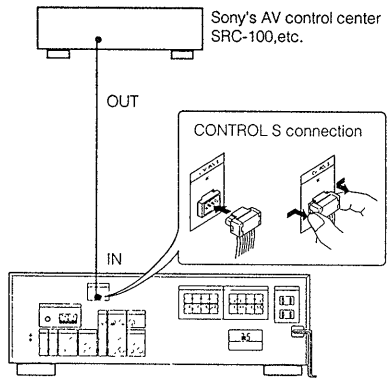
On the IMPEDANCE SELECTOR
The STR-D1011S has the IMPEDANCE SELECTOR for front speakers.
When using the front speakers having nominal impedance from 4 ohms or higher, set to the 4 Ω position.
When using the front speakers having nominal impedance from 8 ohms or higher, set to the 8 Ω position.

Note
Use the front speakers having nominal impedance of more than 8 ohms in the SURROUND mode.

Note
When connecting the speaker cord to the speaker terminal, make sure that the polarity (+ and –) of the speaker cord is correct. If the polarity is reversed at either speaker, the sound will be distorted and will lack bass.

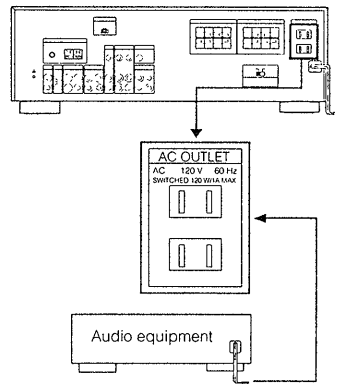
Connecting the Remote Control System

The CONTROL S connections are the Sony's exclusive control system. Connect the CONTROL-S IN on this unit to the CONTROL-S OUT on a Sony equipment, with a CONTROL-S cable. When this connection is made, only remote commands sent through the CONTROL-S IN connector will be executed. Note that the remote sensor on this unit will not function.



Connecting to the Power Outlet

By connecting the power cord of the other audio equipment to SWITCHED AC OUTLET, this unit can supply the power source to the other audio equipment.



Caution
Be careful that the total power consumption of each equipment connected to the outlets on the receiver does not exceed 120 watts.
Do not connect electrical home appliances such as an electric iron, fan, TV, or other high-wattage equipment to these outlets.

Selecting the Mode of the FUNCTION/SOUND FIELD/PRESET TUNING Buttons

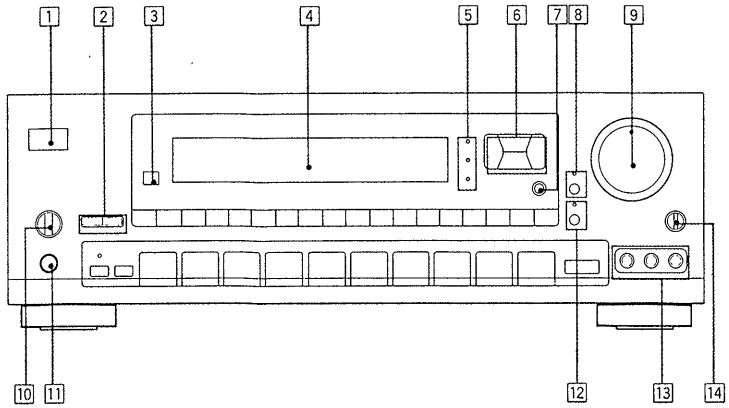
There are two kinds of modes for the FUNCTION/SOUND FIELD/PRESET TUNING buttons. One is the "Auto mode" and the other is the "Manual mode".

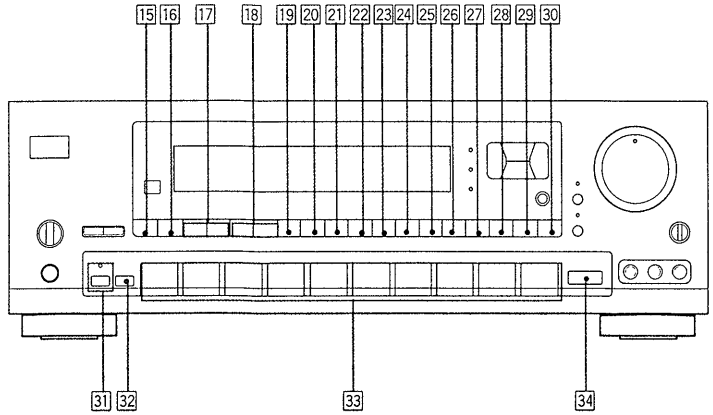
- **Auto mode**
  The FUNCTION/SOUND FIELD/PRESET TUNING buttons are factory preset to the auto mode:
  After one of the FUNCTION buttons, SOUND FIELD LINK, SOUND FIELD ON/OFF or SOUND FIELD USER/PRESET is pressed, the FUNCTION/SOUND FIELD/PRESET TUNING buttons change to the SOUND FIELD mode automatically.
  When TUNER is pressed, these buttons function as numeric buttons.

- **Manual mode**
  When you press the POWER switch while pressing MODE SELECT, the FUNCTION/SOUND FIELD/PRESET TUNING buttons are set to the manual mode.
  With MODE SELECT, you can select the desired mode.
  To return to the auto mode, perform the same procedure again.

Identifying the Parts and Controls

Front Panel





1 **POWER switch**

2 **EDIT VIDEO/AUDIO buttons** (See pages 25, 26.)

3 **Remote sensor**

4 **Display**

5 **CURSOR MODE indicators**
(See pages 16, 21, 30, 31, 33, 36.)

6 **Cursor mode operation buttons**
(See pages 16, 21, 30, 31, 33, 36.)

7 **CURSOR MODE button**
(See pages 16, 21, 30, 31, 33, 36.)

8 **DBFB button and indicator** (See page 14.)

9 **MASTER VOLUME control** (See page 14.)

10 **SPEAKERS selector** (See page 14.)

11 **HEADPHONES jack**

12 **MUTING button and indicator** (See page 14.)

13 **VIDEO 3/INPUT jacks**

14 **BALANCE control** (See page 14)

15 **DISPLAY GRAPHIC button** (See page 36.)

16 **DISPLAY INDEX button** (See pages 18, 22.)

17 **INDEX SELECT/TUNING –/+ buttons**
(See pages 18, 22.)

18 **PRESET TUNING –/+ buttons** (See page 22.)

19 **TUNING LEVEL button** (See page 18.)

20 **MEMORY button** (See pages 16, 19, 21.)

21 **DIRECT TUNING button** (See page 17.)

22 **FM MODE button** (See page 17)

23 **FM/AM button** (See pages 17, 18.)

24 **SOUND FIELD LINK button** (See page 37.)

25 **SOUND FIELD ON/OFF button** (See pages 30, 31.)

26 **SOUND FIELD USER/PRESET button**
(See pages 33, 36, 37.)

27 **DOLBY PRO LOGIC MODE button**
(See pages 29, 30.)

28 **EQUALIZER FLAT button** (See page 36)

29 **EQUALIZER SLOPE button** (See page 36.)

30 **EQUALIZER BAND button** (See page 36.)

31 **TAPE 2 MONITOR button and indicator**
(See page 24)

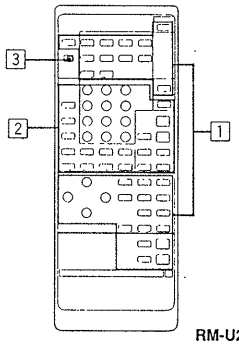
32 **SHIFT button** (See pages 19, 20, 21.)

33 **FUNCTION/SOUND FIELD/PRESET TUNING buttons**
(See page 9.)

34 **MODE SELECT button** (See page 9.)

Identifying the Parts and Controls

Remote Commander



RM-U221

[1] **Receiver control section**

FUNCTION·
DAT, CD, TUNER, PHONO, VIDEO 1, VIDEO 2, VIDEO 3, TAPE, DIGITAL 1, 2: The each function is selected and the each unit enters its operating mode automatically (DIGITAL 1 and 2 do not function.)
SYSTEM OFF: Turns off the power of the whole system.
POWER: Turns on the power of the receiver.
SOUND FIELD buttons
U/P (user/preset): Selects the USER or PRESET mode.
MODE· Selects the sound field mode
ON/OFF· Turns on/off the sound field system.
BAND: Selects the frequency band of the equalizer.
EQ: Turns on/off the setting of TONE controls.
T. (test) TONE: Generates a pink noise signal that is sent in succession to each speaker.
CURSOR MODE: Select CURSOR MODE.
CURSOR operating buttons
REAR LEVEL +/– buttons: Control the volume of rear speakers (surround level).
CENTER LEVEL +/– buttons : Control the volume of center speaker (surround level).
DBFB button: Turns on/off the DBFB (Dynamic Bass Feedback).
MUTING button: Mutes the sound.
MASTER VOL +/– buttons: Control the receiver volume.
SLEEP: Set to the SLEEP timer mode In this mode, the unit is automatically turned off after the designated time.

[2] **Other equipment control section**

Numeric buttons (1 to 0): Designate the number.
ENTER: Press after designating the TV/VCR channel.
SHIFT: Select the memory page (A, B or C).
TV/VIDEO selector· Selects the program to see : TV or VIDEO.
ANT TV/VTR button· Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.
CH/PRESET +/– buttons: Select a preset channel.
INDEX: Set to the index tuning mode
◄◄/►►: Fast winding/manual search
●: Recording
◄/►: Play
■: Stop
II: Pause
I◄◄/►►I: Locates a desired selection.
REV/FWD: Press ● and REV or FWD at the same time.
D (disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)
SELECT: Changes the settings of the FUNCTION buttons.

Notes

- The button which has no name does not function
- When designating the selection number which is more than 10 in the CD, DAT or LD mode, press ►►I after pressing the appropriate numeric buttons.

[3] **SYSTEM/TV mode switch**

In TV mode (When setting the SYSTEM/TV selector to TV)

Only MUTING, MASTER VOL +/– and the operative buttons in TV section on the list described on the next page can be used.

Precautions

On safety

- Operate the unit only on 120 V AC, 60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

To prevent internal heat buildup in the unit,
place the unit in a location with adequate air circulation.

Do not install the unit:

- near heat sources such as radiators or air ducts.
- in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Do not place anything on top of the cabinet.
The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.

Do not throw away the carton and packing material!
It will be an ideal container when transporting the system for repair work, etc.

On operation
Before making program source connections, be sure to turn the power switch off and unplug the unit.

On cleaning the cabinet
Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

For the customers in the U.S.A.
For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer.

Chapter 1 Getting Started

Unpacking

Checking the Supplied Accessories

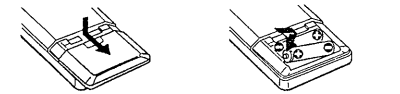
After unpacking, check that the following accessories are present.

- FM wire antenna ..... (1)
- AM loop antenna ..... (1)
- Remote commander ..... (1)
- Sony batteries SUM-3 (NS) ..... (2)
- 4-p flat cord ..... (1)

Inserting the Batteries into the Remote Commander

Before operating remote commander, install the batteries as shown.

1 Open the cover. **2** Two size AA (R6) batteries with correct polarity.



To avoid damage caused by battery leakage and corrosion
When the commander will not be used for a long time, remove the batteries.

Battery life
Normal operation can be expected about a half year using Sony SUM-3 (NS), and a year using Sony AM-3 (NW) alkaline batteries.
When the batteries are run down, the remote commander will not operate the unit. In this case, replace batteries with new ones.

Selecting the AM Tuning Interval

The AM tuning interval is preset to 10 kHz. To use the receiver where the frequency allocation system is based on a 9 kHz interval, make the following adjustments.

1 Turn on the power and tune in any AM station.
2 Turn off the power.
3 Press the POWER button while pressing the INDEX SELECT/TUNING + button.

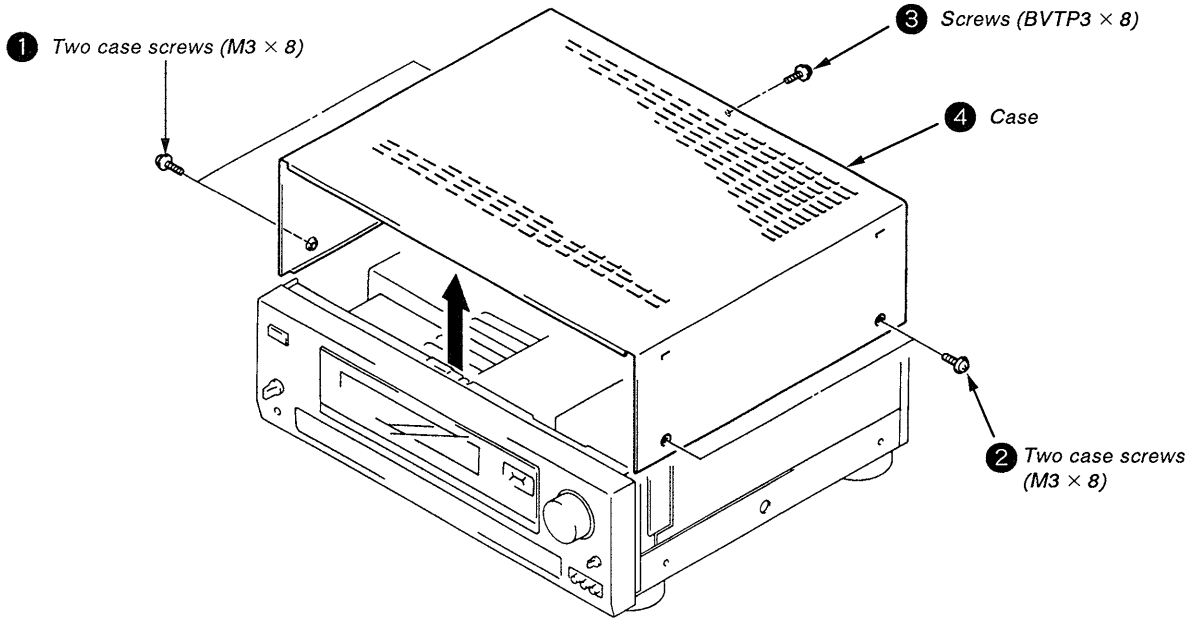
To reset the AM tuning interval, repeat the above steps.

Caution
When the interval is changed, all preset stations which you have memorized will be erased. After changing the interval, be sure to preset the stations again.

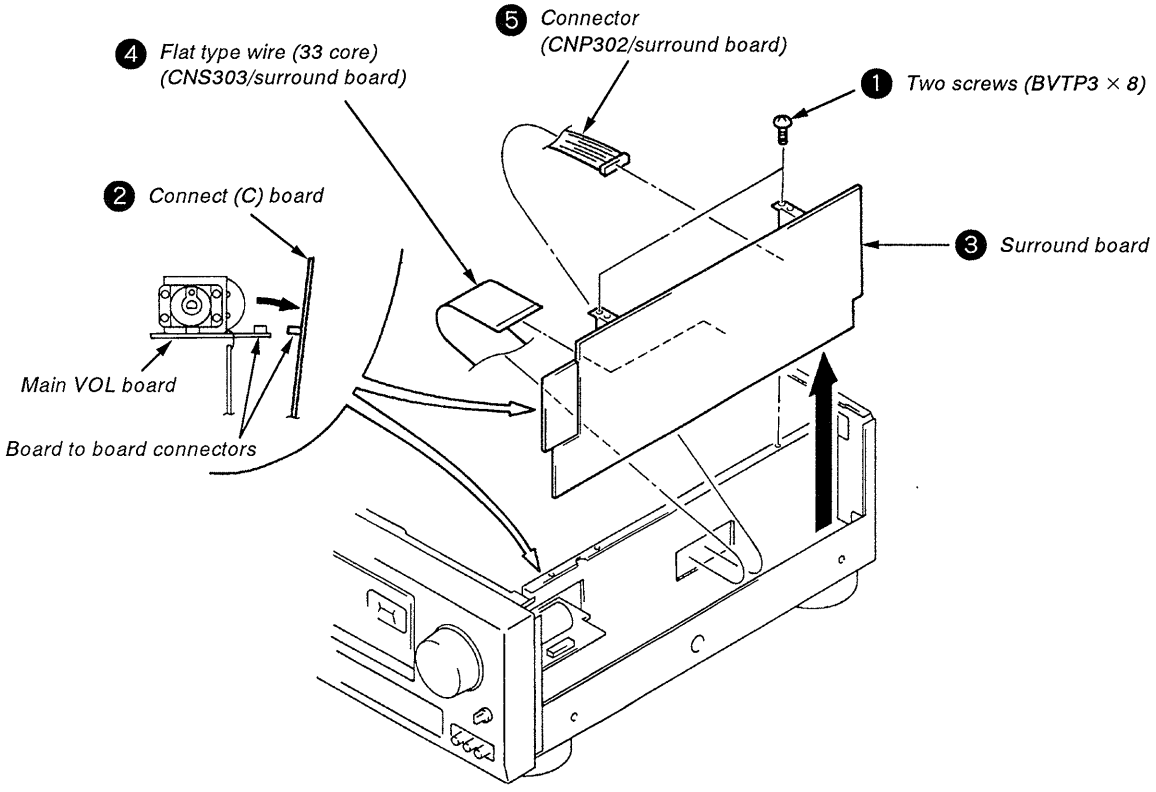
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

2-1. CASE REMOVAL



2-2. SURROUND BOARD REMOVAL

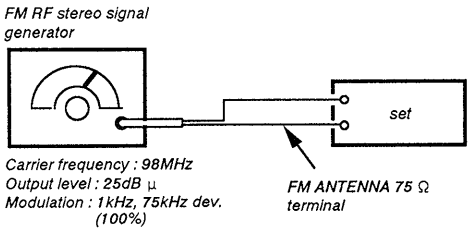

5 Connector (CNP302/surround board)
4 Flat type wire (33 core) (CNS303/surround board)
1 Two screws (BVTP3 × 8)
2 Connect (C) board
3 Surround board
Main VOL board
Board to board connectors

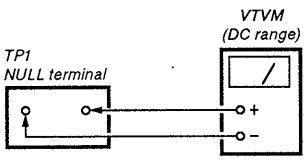
SECTION 3
ELECTRICAL ADJUSTMENTS

FM SECTION

• FM Discriminator (NULL) Adjustment

Setting :


FM RF stereo signal generator
set
Carrier frequency : 98MHz
Output level : 25dB μ
Modulation : 1kHz, 75kHz dev. (100%)
FM ANTENNA 75 Ω terminal



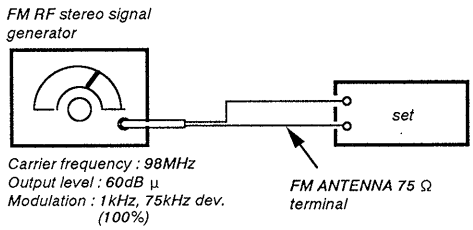
Procedure :

1. Tune the set to 98MHz.
2. Adjust T21 for 0V reading on the VOM.

Note : FM Tuning level adjustment should be made after FM discriminator adjustment.

• FM Tuning Level Adjustment

Setting :

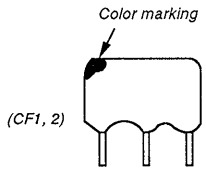

FM RF stereo signal generator
set
Carrier frequency : 98MHz
Output level : 60dB μ
Modulation : 1kHz, 75kHz dev. (100%)
FM ANTENNA 75 Ω terminal

Procedure :

1. Tune the set to 98MHz.
2. Adjust RV24 so that the Voltage of IC10 ㉒ Pin is set to low.

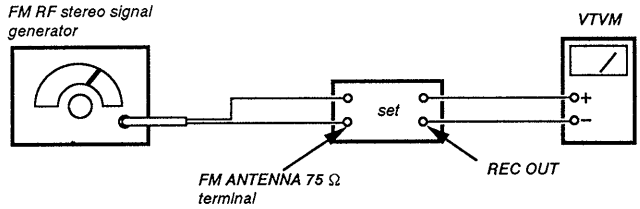
Note on Ceramic Filter (CF1, 2) Replacement. (DISPLAY BOARD)

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by (* A, * B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



• FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 60dB μ
Modulation :
Audio (1kHz) : 33.75kHz dev. (45%)
Pilot (19kHz) : 7.5kHz dev. (10%)
Sub-channel (38kHz) : 33.75kHz dev. (45%)

Procedure :

Tune the set to 98MHz

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV21 for minimum reading
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV21 for minimum reading

L-CH Stereo separation : Ⓐ−Ⓑ
R-CH Stereo separation : Ⓒ−Ⓓ
> 40dB

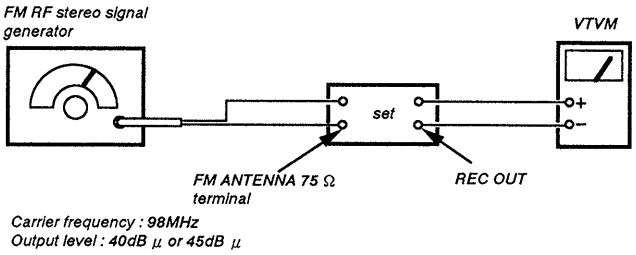
The separations of both channels should be equal

○ : shout
× : open

Ceramic filter		Mount		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	* A (D217)	* B (D218)	
White	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650

• Auto Stop Level Adjustment

Setting :



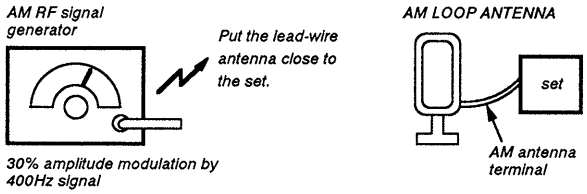
Procedure :

1. Push the TUNING LEVEL switch to High.
2. Adjust RV25 so that the voltage of IC10 ㉑ pin set to low.

AM SECTION

• AM Tuning Level

Setting :

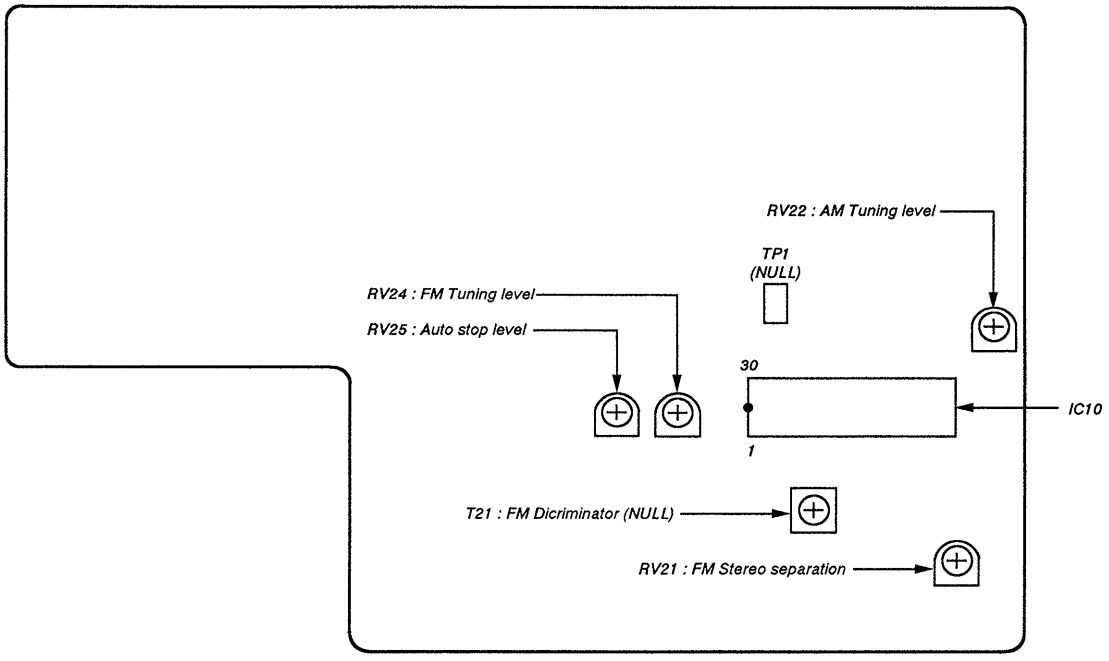

AM RF signal generator
Put the lead-wire antenna close to the set.
AM LOOP ANTENNA
set
AM antenna terminal
30% amplitude modulation by 400Hz signal

Procedure :

1. Tune the set to 1,050kHz.
2. Adjust RV22 so that the voltage of IC10 ㉑ pin set to low.

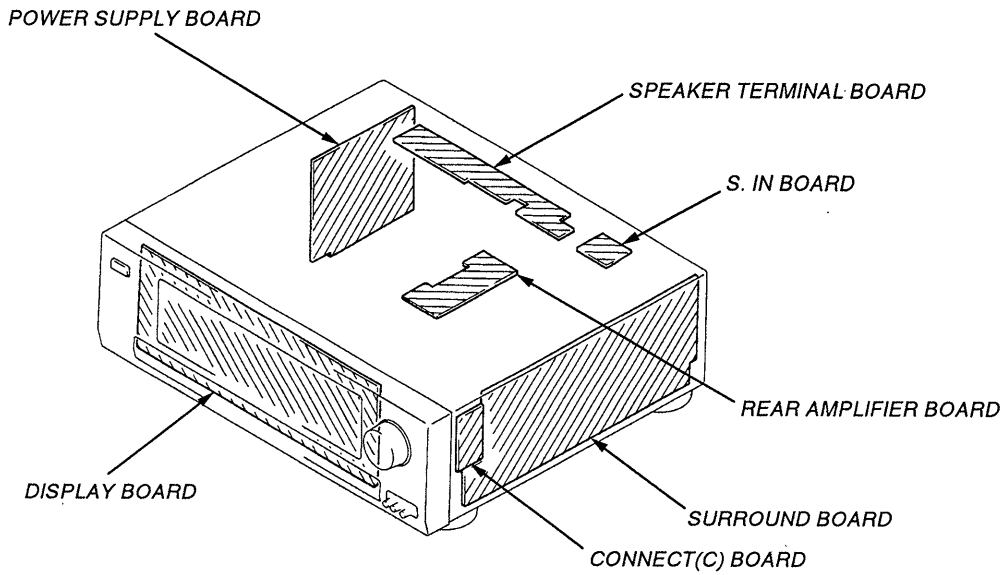
Adjustment Location :

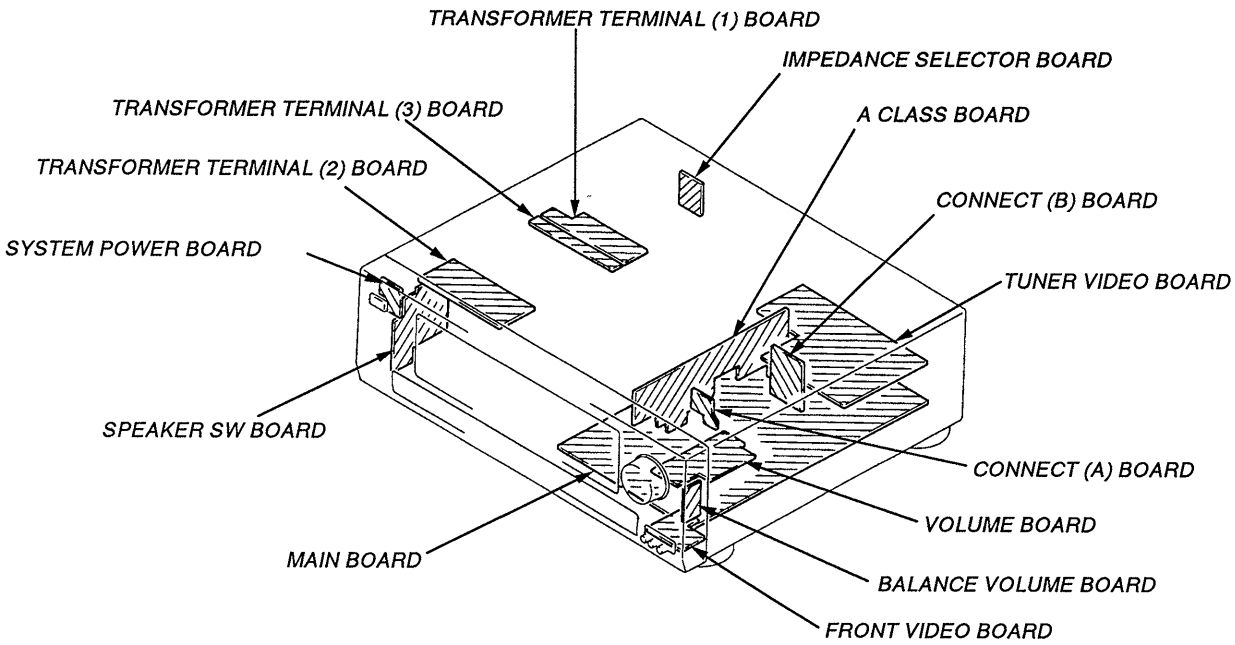
[TUNER VIDEO BOARD] – Component side –



SECTION 4
DIAGRAMS

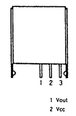
4-1. CIRCUIT BOARDS LOCATION



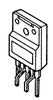


4-2. SEMICONDUCTOR LEAD LAYOUTS

GP1U52XB



LM3875-S

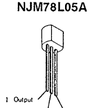


M5218AFP

M5F78M05L
M5F78M15L

M5F79M15L

NJM78L05A



NJM79L05A

RBA-402

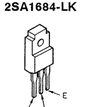
2SA979-FG

2SA988-PAFAEA

2SA1142-QPE
2SC2682-QPE

2SA1175-HFE
2SC2785-HFE
2SC3623A-LK

2SA1684-LK



2SC1841-PAFAEA

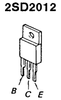
2SC2603-EF
DTA114ES
DTA124ES
DTC114ES
DTC124ES
DTC144ES

2SC3113-AB
2SC2669-OY

2SC3395
2SC3396
2SC3398
2SC3661
2SD601A-S
DTA144EK
RN2402

2SC4431-LK

2SD2012



2SK246-GR2
2SK246-GR3

10E2
1N4148
1S1585
HZS4ALL
UZP-6.8B

1SS352

HZS6A3L
HZS6C3L
UZL-36L

RBV-602-01

SEL2810A

SEL3810A-CD

SEL6914W-TP6S

● SEMICONDUCTOR LOCATION

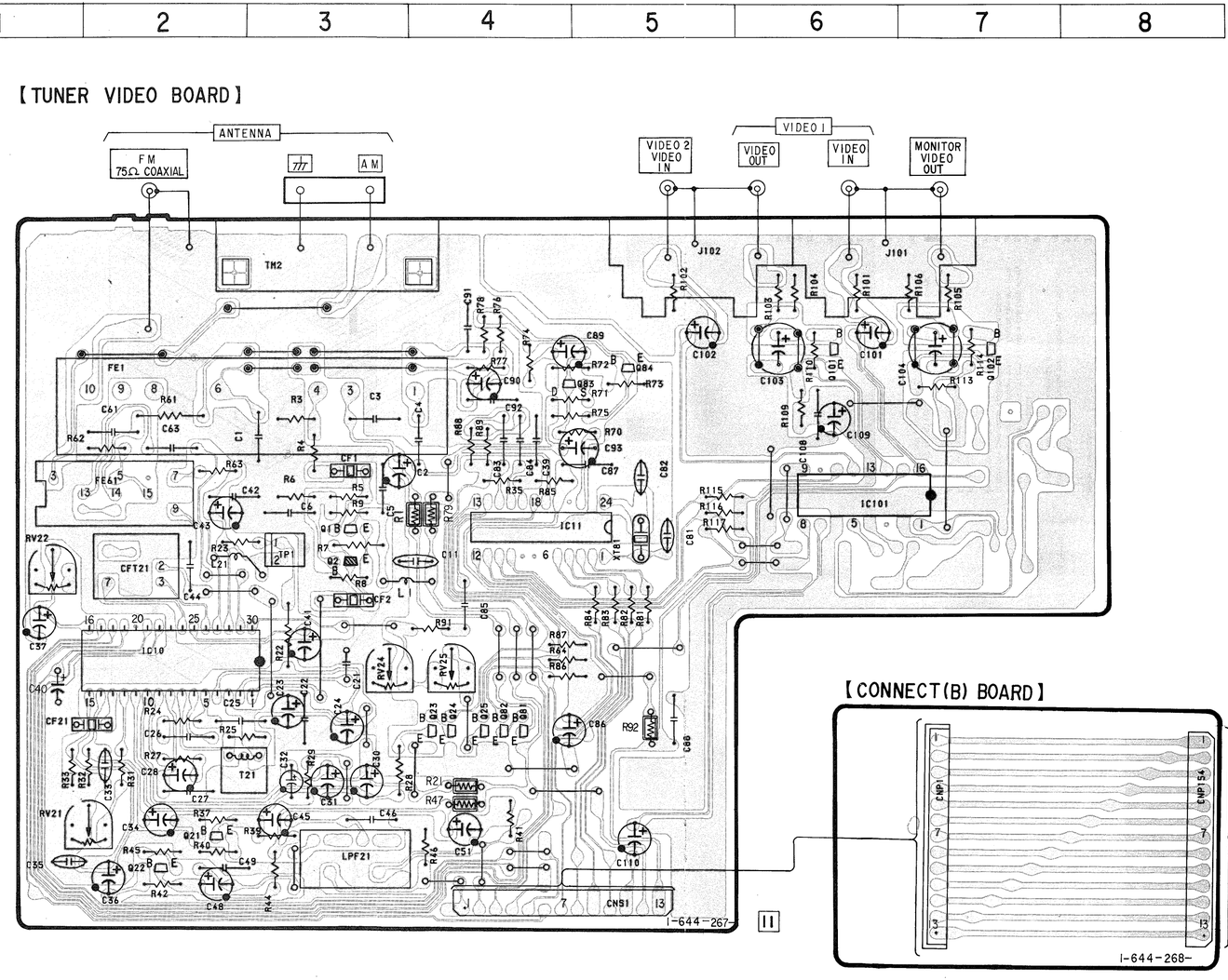
Ref. No.	Location
IC10	D-2
IC11	D-4
IC101	C-6
Q1	D-3
Q2	D-3
Q21	E-2
Q22	F-2
Q23	E-4
Q24	E-4
Q25	E-4
Q81	E-4
Q82	E-4
Q83	C-4
Q84	C-5
Q101	B-6
Q102	B-7

Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

4-3. PRINTED WIRING BOARDS – TUNER SECTION –

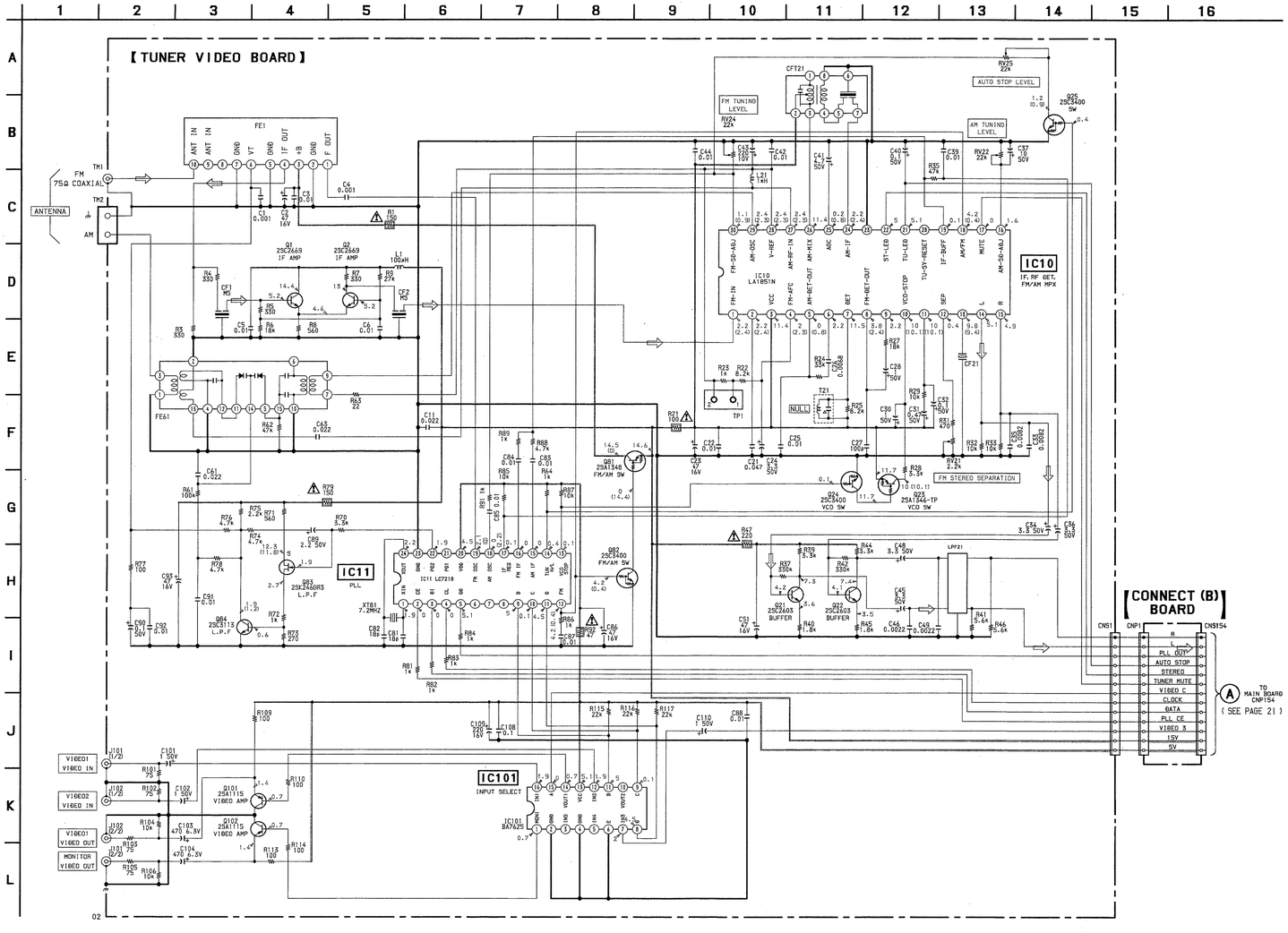
【TUNER VIDEO BOARD】



【CONNECT(B) BOARD】

A TO MAIN BOARD CNP154 (See page 25)

02



Note :

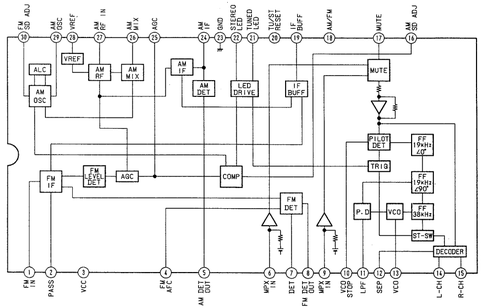
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

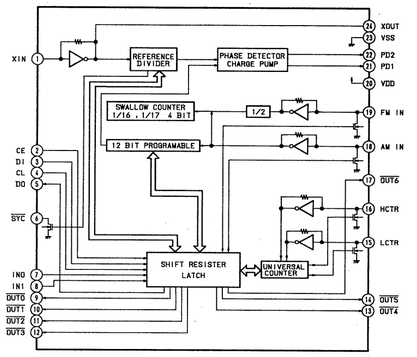
- : B+ Line
- : B – Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

● IC BLOCK DIAGRAMS

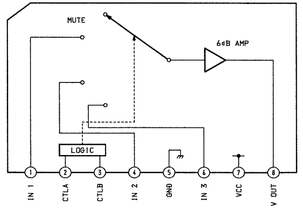
IC10 LA1851N



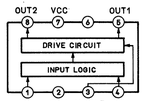
IC11 LC7218



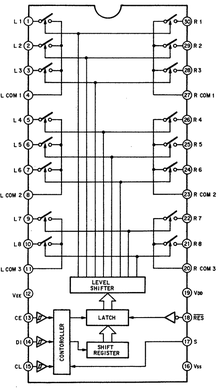
IC102 BA7611AN



IC231 LB1639



IC510, 511 LC7822



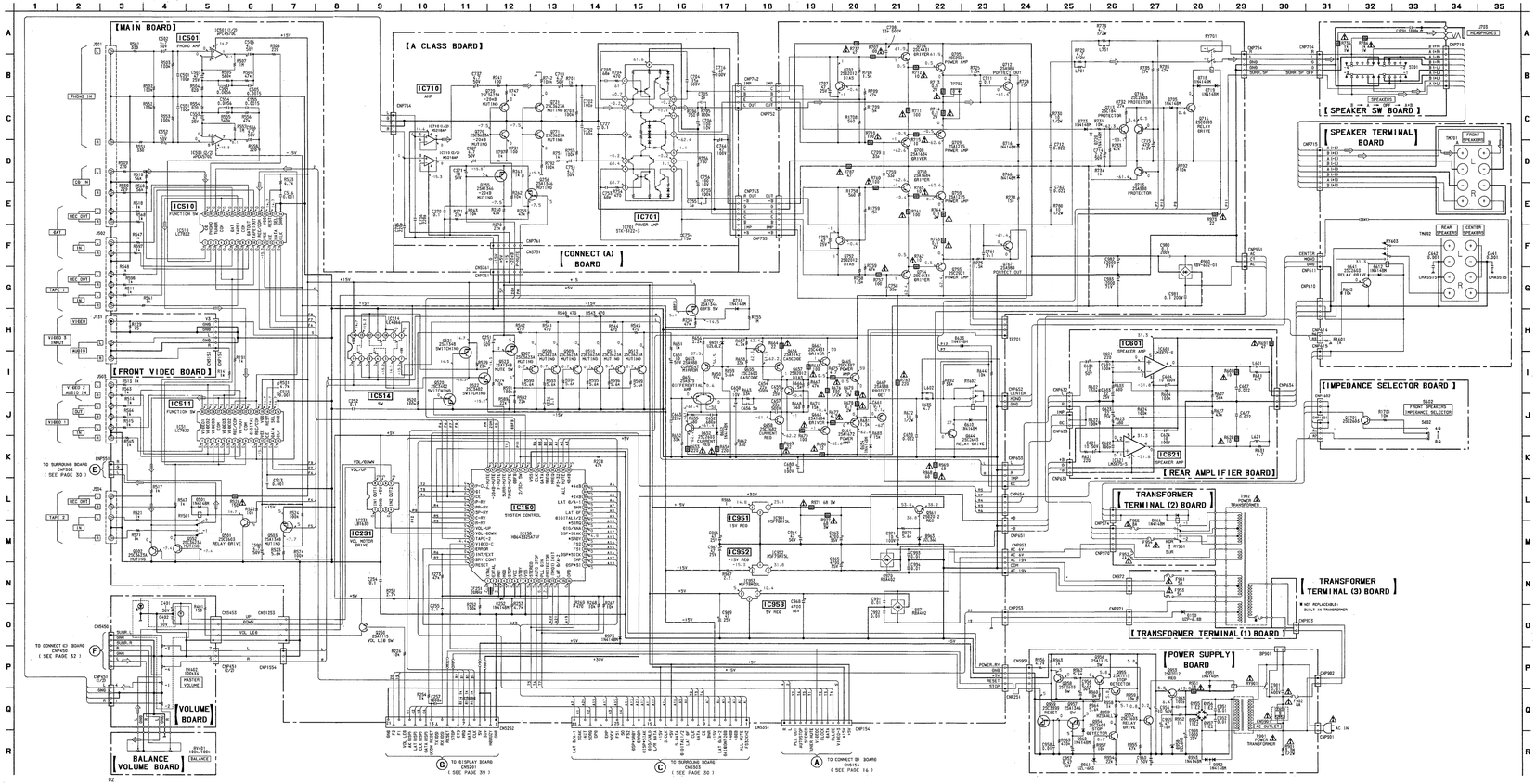
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▪▪▪ : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- ▬▬ : B+ Line
- ▬ ▬ ▬ : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

4-5. SCHEMATIC DIAGRAMS – MAIN SECTION –



4-6. PRINTED WIRING BOARDS — MAIN SECTION —

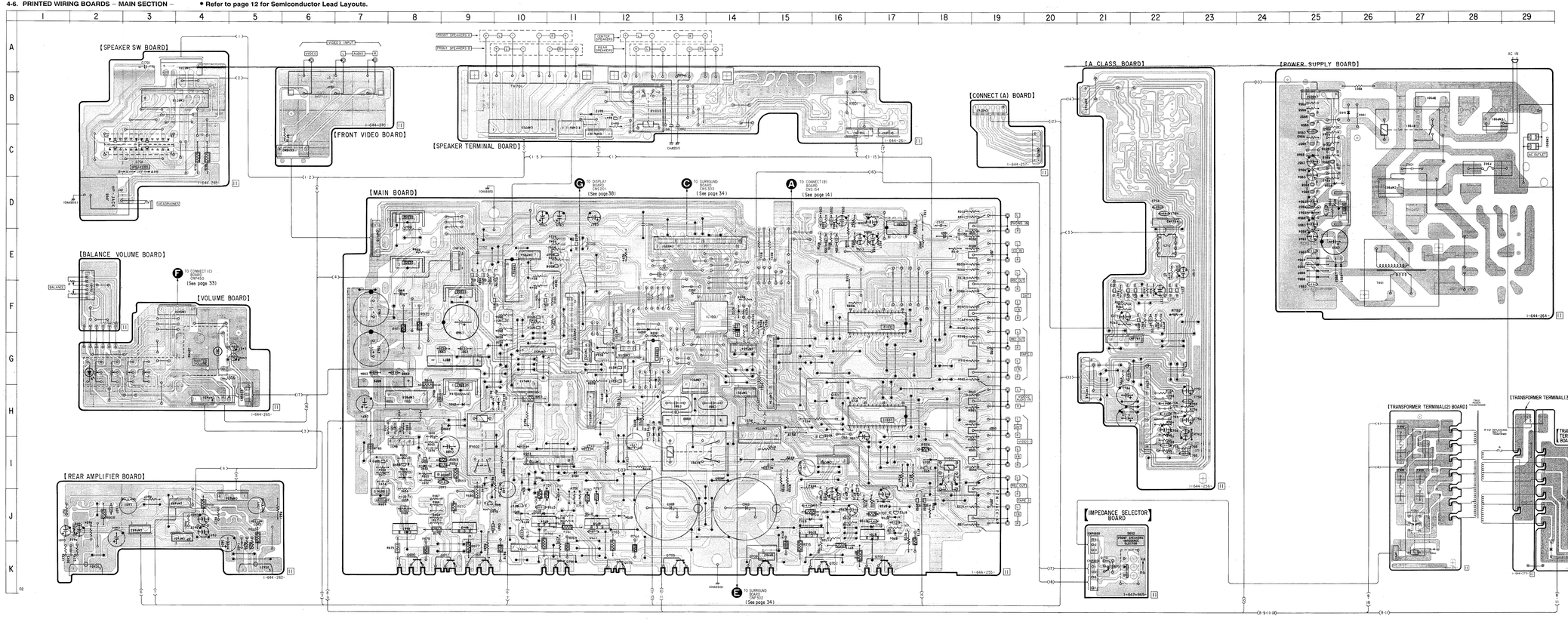
• Refer to page 12 for Semiconductor Lead Layouts.

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D150	K - 29	IC510	F - 17	Q714	J - 16
D252	F - 14	IC511	H - 17	Q715	J - 16
D253	E - 12	IC514	E - 10	Q716	H - 12
D501	I - 18	IC601	K - 2	Q720	F - 22
D610	H - 9	IC621	K - 5	Q721	F - 21
D611	H - 10	IC701	I - 22	Q752	K - 12
D612	B - 11	IC951	E - 8	Q754	J - 10
D623	G - 13	IC952	D - 8	Q755	K - 11
D651	I - 8	IC953	F - 9	Q758	J - 11
D652	I - 8			Q759	K - 13
D654	I - 9			Q767	J - 10
D701	J - 16	Q250	G - 12	Q770	G - 22
D702	J - 16	Q255	H - 22	Q771	F - 22
D703	J - 17	Q256	G - 21	Q852	B - 25
D704	J - 17	Q257	G - 12	Q953	D - 26
D705	H - 12	Q501	I - 18	Q954	D - 25
D716	J - 17	Q502	J - 18	Q955	C - 25
D718	H - 13	Q503	H - 16	Q956	C - 25
D719	H - 13	Q507	E - 11	Q957	C - 25
D720	J - 16	Q508	E - 11	Q958	D - 25
D723	J - 17	Q509	F - 10	Q959	B - 25
D731	H - 12	Q510	F - 10	Q961	G - 9
D751	J - 10	Q511	F - 10		
D752	J - 10	Q512	F - 10		
D753	J - 11	Q520	E - 9		
D754	J - 12	Q521	E - 9		
D768	I - 10	Q522	F - 10		
Q780	I - 11	Q523	E - 11		
Q781	I - 10	Q552	J - 17		
D851	B - 26	Q841	B - 12		
D952	E - 25	Q644	H - 10		
D953	E - 25	Q651	I - 8		
D954	E - 25	Q652	I - 8		
D955	E - 25	Q653	I - 8		
D956	E - 25	Q655	J - 7		
D957	E - 25	Q656	J - 7		
D958	D - 25	Q657	K - 9		
D959	D - 25	Q658	I - 9		
D960	C - 25	Q662	J - 8		
D961	D - 25	Q663	J - 9		
D963	H - 9	Q664	K - 9		
D966	K - 25	Q665	K - 8		
D967	J - 25	Q667	J - 9		
D870	G - 7	Q702	K - 16		
D971	G - 9	Q704	J - 17		
D973	F - 12	Q705	K - 17		
D980	H - 13	Q708	J - 16		
IC150	F - 14	Q709	K - 15		
IC231	G - 13	Q712	J - 17		
IC501	D - 17	Q713	J - 16		

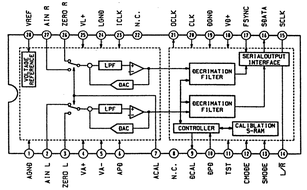
Note:

- ○— : parts extracted from the component side.
- —● : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

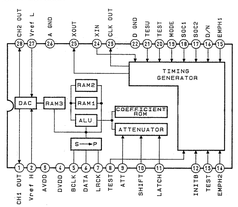


● IC BLOCK DIAGRAMS

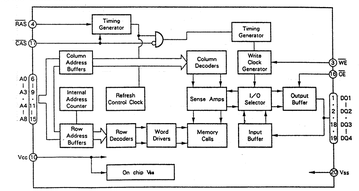
IC301 CS5339-KP



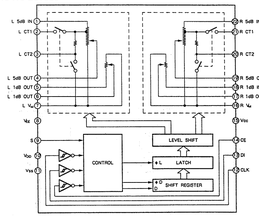
IC307 LC7883K



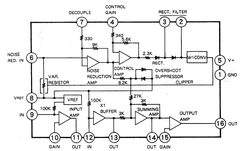
IC406 LC32456-10



IC418 LC7535



IC420 LA2730



4-7. SCHEMATIC DIAGRAMS – DIGITAL SECTION –

【 SURROUND BOARD 】

IC302 LINE AMP
IC301 A/D CONVERTER
IC304 +5V REG
IC303 +5V REG
IC404 LC89510 61011AL SIGNAL PROCESSOR
IC406 LC32456A
IC405 CXD2564AM 61011AL FILTER
IC307 LC7535 D/A CONVERTER
IC420 DOLBY NOISE REDUCTION
IC421 SW
IC416 SURROUND CONTROL
IC408 REG
IC308 BUFFER
IC309 L.P.F
IC305 (1/2) MIX AMP
IC355 (1/2) MIX AMP
IC306 L.P.F
IC305 REG
Q404-409 SWITCHING
Q304, 356 MUTING
Q354, 355 MUTING
Q502, 520 MUTING
Q504, 529 MUTING
Q503 2ch GAIN SW
Q552 4ch GAIN SW
Q554 (1/2) MUTING
Q554 (1/2) MUTING
Q504 (1/2) MUTING
Q505 4ch GAIN SW
Q554 (1/2) MUTING
Q554 (1/2) MUTING
Q506 2ch GAIN SW
Q507 2ch GAIN SW
Q508 2ch GAIN SW
Q509 2ch GAIN SW
Q722 6BF9 SW
Q723 6BF9 SW
Q724 6BF9 SW
Q725 6BF9 SW
IC710 BUFFER
TO MAIN BOARD CNP551 (SEE PAGE 20)
TO MAIN BOARD CNS351 (SEE PAGE 21)
TO VOLUME BOARD CNS450 (SEE PAGE 20)
【 CONNECT (C) BOARD 】

Note :

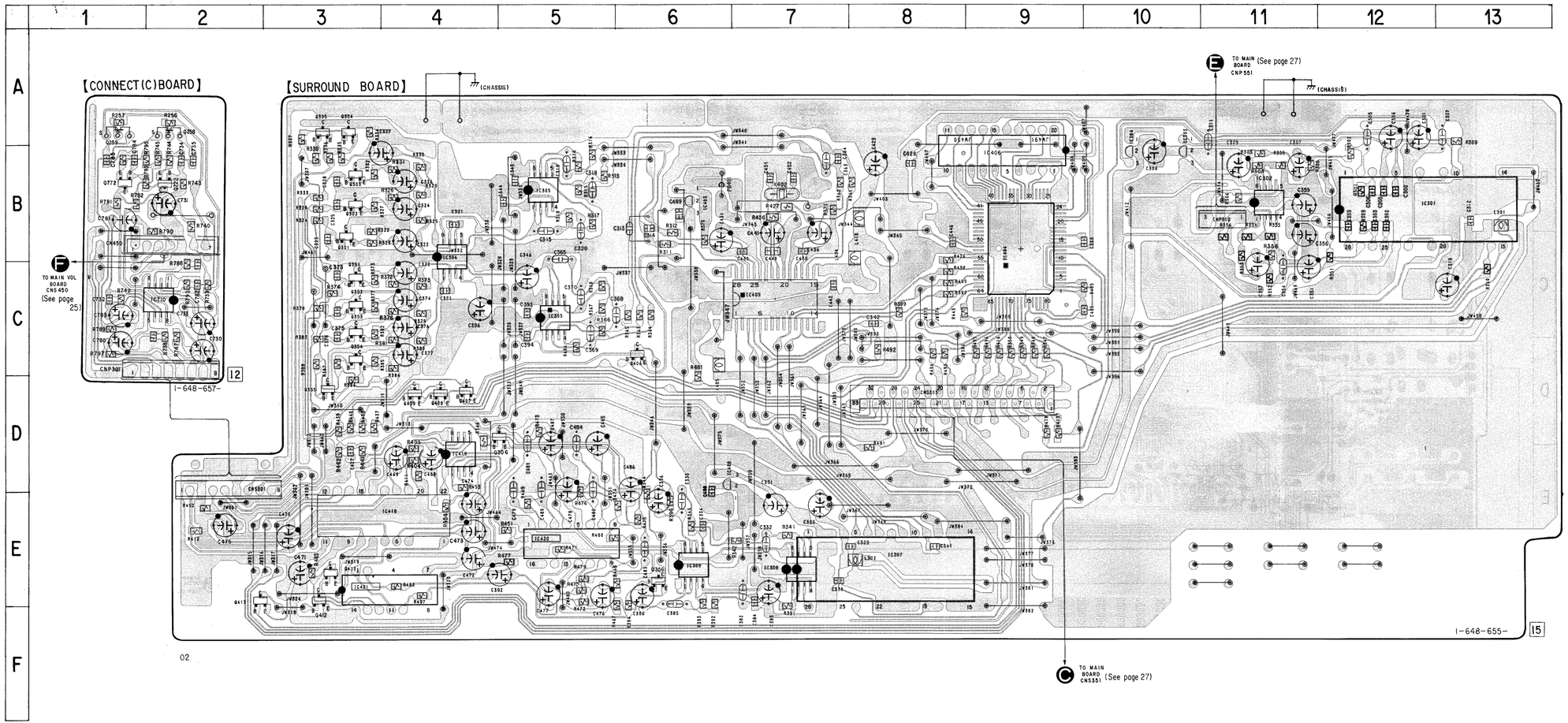
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- : B+ Line
- : B – Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

4-8. PRINTED WIRING BOARDS – DIGITAL SECTION –

• Refer to page 12 for Semiconductor Lead Layouts.



• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC301	B - 12
IC302	B - 11
IC303	B - 10
IC304	B - 10
IC305	B - 5
IC306	B - 4
IC307	E - 8
IC308	E - 7
IC309	E - 6
IC355	C - 5
IC403	B - 6
IC404	B - 9
IC405	C - 7
IC406	B - 9
IC408	D - 6
IC418	E - 4
IC419	D - 4
IC420	E - 5
IC421	E - 4
IC710	C - 2
Q258	A - 2
Q259	A - 1
Q301	B - 3
Q302	B - 3
Q303	B - 3
Q304	A - 3
Q305	A - 3
Q306	D - 5
Q351	C - 3
Q352	C - 3
Q353	C - 3
Q354	C - 3
Q355	D - 3
Q356	E - 6
Q406	C - 6
Q407	D - 4
Q408	D - 4
Q409	D - 4
Q411	E - 3
Q412	E - 3
Q413	E - 2
Q722	B - 2
Q772	B - 1

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.

4-9. PRINTED WIRING BOARDS – DISPLAY SECTION –

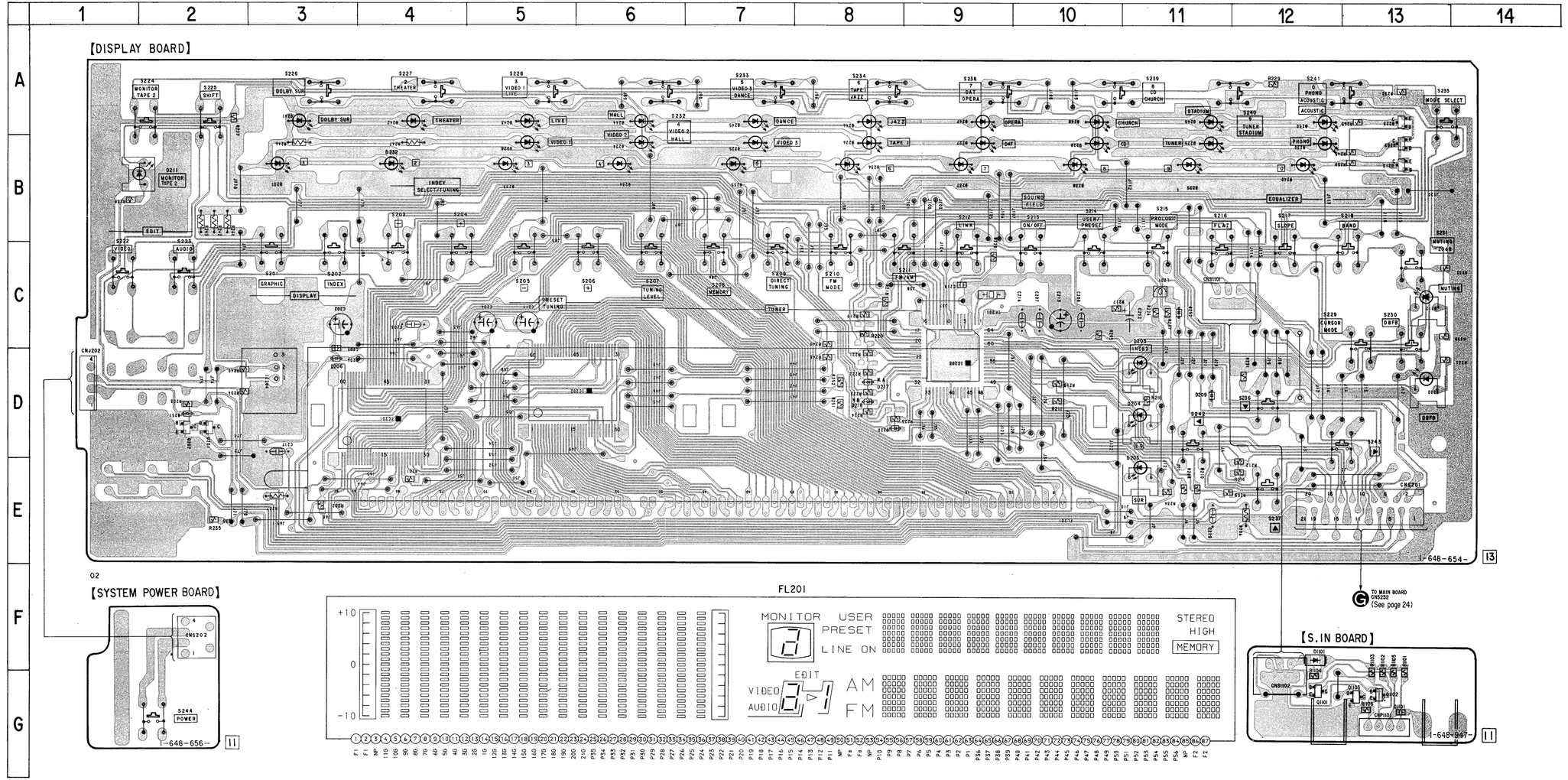
• Refer to page 12 for Semiconductor Lead Layouts.

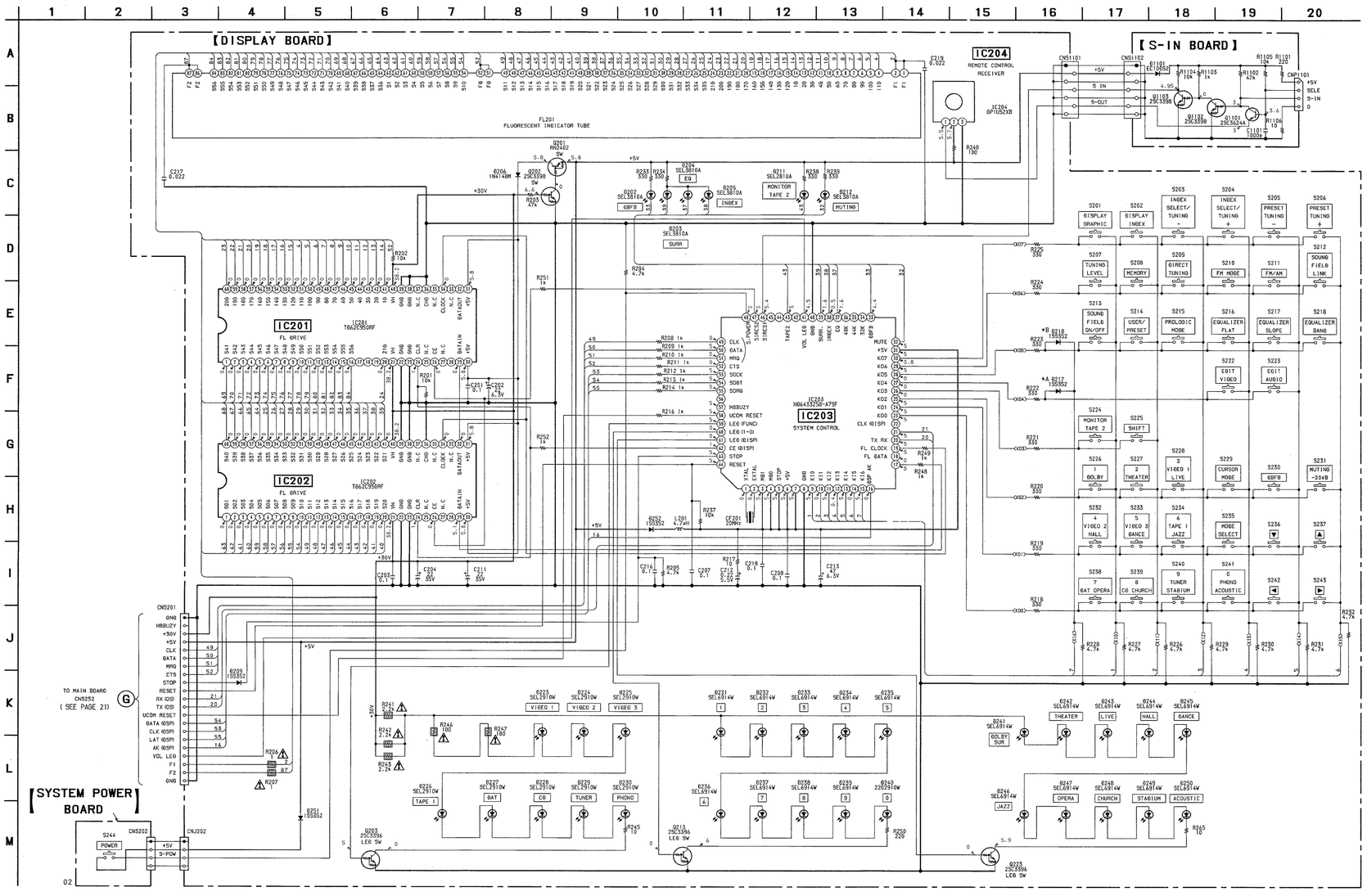
• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC201	D-4
IC202	D-5
IC203	D-9
IC204	D-3
D202	D-13
D203	E-11
D204	D-11
D205	D-11
D206	D-3
D209	D-11
D211	B-2
D212	C-13
D223	B-5
D224	B-6
D225	B-7
D226	B-8
D227	B-9
D228	B-10
D229	B-11
D230	B-12
D231	B-3
D232	B-4
D233	B-5
D234	B-6
D235	B-7
D236	B-8
D237	B-9
D238	B-10
D239	B-11
D240	B-12
D241	A-3
D242	A-4
D243	A-5
D244	A-6
D245	A-7
D246	A-8
D247	A-9
D248	A-10
D249	A-11
D250	A-12
D251	D-2
D252	C-11
D1101	F-12
Q201	D-2
Q202	D-2
Q203	B-13
Q213	B-13
Q223	A-13
Q1101	G-12
Q1102	G-13
Q1103	G-13

Note:

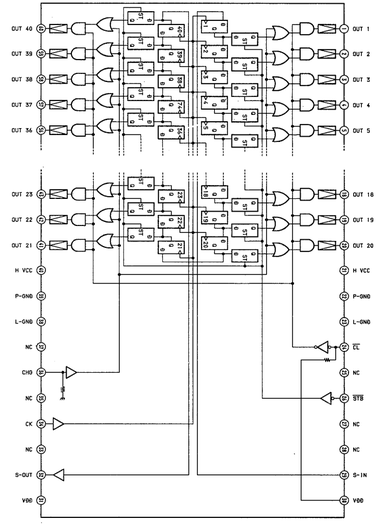
- ○— : parts extracted from the component side.
- —● : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.





● IC BLOCK DIAGRAMS

IC201, 202 TD62C950RF



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▭ : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- ▬▬▬ : B+ Line
- ▬ ▬ ▬ : B – Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- See page 9 for ＊A, ＊B note.

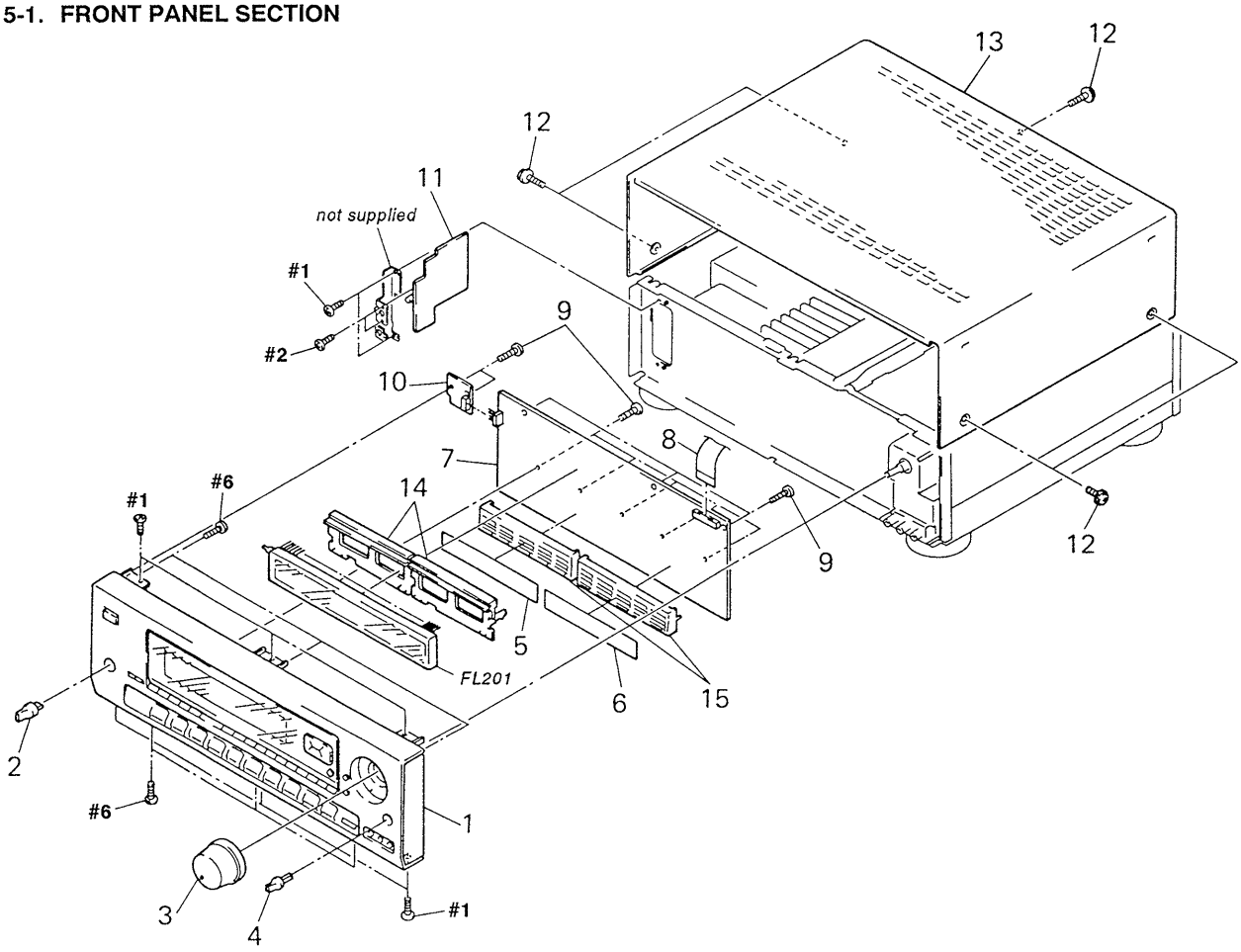
SECTION 5
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example :
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark)list is given in the last of this parts list.

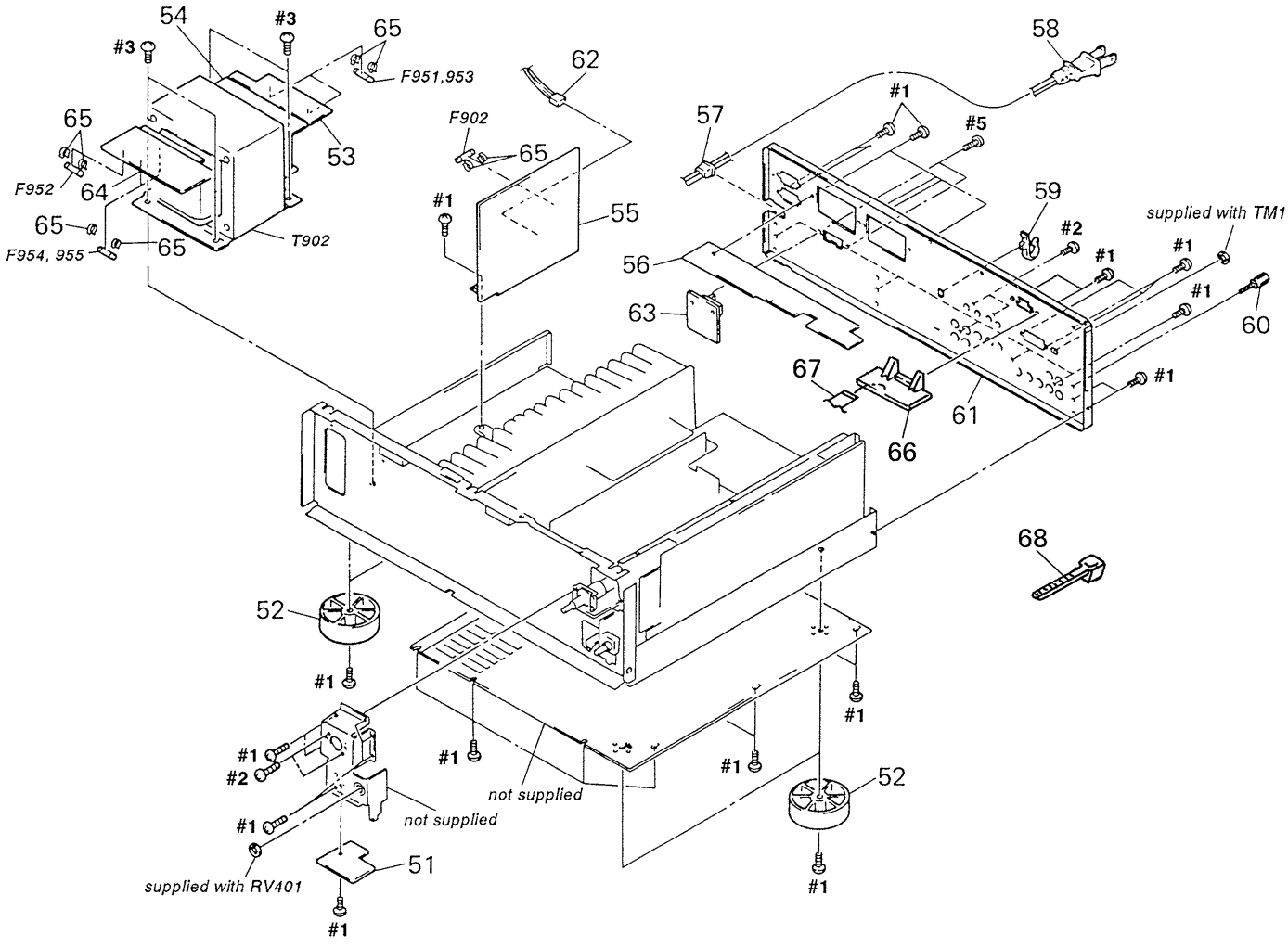
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
* 1	X-4944-195-1	PANEL ASSY, FRONT	
2	4-908-097-21	KNOB	
3	X-4943-036-1	KNOB (48X) ASSY	
4	4-925-014-01	KNOB (DIA.10)	
* 5	4-954-181-01	PLATE (F), INDICATION	
* 6	4-954-181-11	PLATE (F), INDICATION	
* 7	A-4365-811-A	DISPLAY BOARD, COMPLETE	
8	1-690-091-11	WIRE, FLAT TYPE (21 CORE)	
9	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
* 10	1-648-656-11	SYSTEM POWER BOARD	
* 11	1-644-263-11	SPEAKER SW BOARD	
12	3-704-366-01	SCREW (CASE) (M3X8)	
* 13	4-927-877-11	CASE	
* 14	4-952-472-01	HOLDER (S), FL TUBE	
* 15	4-952-473-01	HOLDER (S), LED	
FL201	1-519-724-11	INDICATOR TUBE, FLUORESCENT	

5-2. CHASSIS SECTION

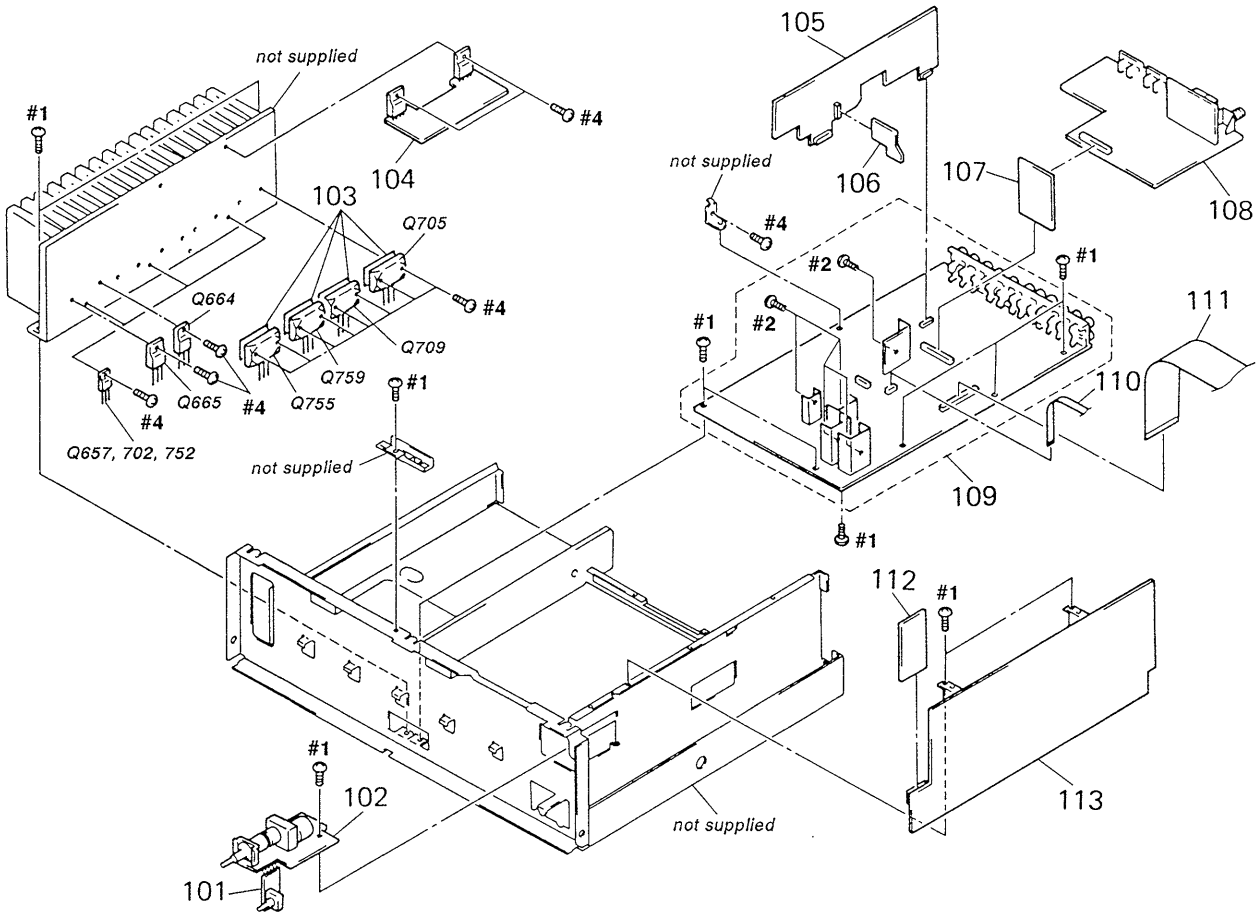


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 51	1-644-270-11	FRONT VIDEO BOARD	
52	4-956-885-01	FOOT (F58175S2W)	
* 53	1-644-271-11	TRANSFORMER TERMINAL (1) BOARD	
* 54	1-644-273-11	TRANSFORMER TERMINAL (3) BOARD	
* 55	A-4365-126-A	POWER SUPPLY BOARD, COMPLET	
* 56	1-644-261-11	SPEAKER TERMINAL BOARD	
* 57	3-703-244-00	BUSHING (2104), CORD	
⚠58	1-575-975-11	CORD, POWER	
* 59	4-949-235-01	HOOK	
60	4-947-010-01	SCREW, FEEDER FIXED	
* 61	4-962-815-01	PANEL, BACK	
62	1-696-073-21	LEAD (WITH CONNECTOR) (2 CORE)	
* 63	1-647-965-11	IMPEDANCE SELECTOR BOARD	

Ref. No.	Part No.	Description	Remark
* 64	1-644-272-11	TRANSFORMER TERMINAL (2) BOARD	
65	1-533-225-11	HOLDER, FUSE	
* 66	1-648-947-11	S. IN BOARD	
67	1-751-801-11	WIRE (FLAT TYPE) (7 CORE)	
68	3-655-653-21	BAND (TAITON), BINDING	
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
⚠F951	1-576-109-11	FUSE (5A/125V)	
⚠F952	1-576-108-11	FUSE (4A/125V)	
⚠F953	1-576-109-11	FUSE (5A/125V)	
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
⚠T902	1-423-643-11	TRANSFORMER, POWER	

5-3. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
* 101	1-644-266-11	BALANCE VOLUME BOARD	
* 102	1-644-265-11	VOLUME BOARD	
103	4-885-901-31	SHEET, RADIATION	
* 104	A-4360-930-A	REAR AMPLIFIER BOARD, COMPLETE	
* 105	A-4360-931-A	A CLASS BOARD, COMPLETE	
* 106	1-644-257-11	CONNECT (A) BOARD	
* 107	1-644-268-11	CONNECT (B) BOARD	
* 108	A-4347-954-A	TUNER VIDEO BOARD, COMPLETE	
* 109	A-4360-932-A	MAIN BOARD, COMPLETE	
110	1-575-848-11	WIRE, FLAT TYPE (5 CORE)	
111	1-696-550-11	WIRE (FLAT TYPE) (33 CORE)	

Ref. No.	Part No.	Description	Remark
* 112	A-4360-682-A	CONNECT (C) BOARD, COMPLETE	
* 113	A-4360-681-A	SURROUND BOARD, COMPLETE	
Q657	8-729-209-15	TRANSISTOR 2SD2012	
Q664	8-729-321-24	TRANSISTOR 2SA1672-OY	
Q665	8-729-321-21	TRANSISTOR 2SC4387-OY	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q705	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q709	8-729-320-73	TRANSISTOR 2SA1215-OY	
Q752	8-729-209-15	TRANSISTOR 2SD2012	
Q755	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q759	8-729-320-73	TRANSISTOR 2SA1215-OY	

SECTION 6
ELECTRICAL PARTS LIST

A CLASS

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-4360-931-A	A CLASS BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C270	1-136-165-00	FILM	0.1uF	5%	50V
C271	1-124-907-11	ELECT	10uF	20%	50V
C701	1-124-927-11	ELECT	4.7uF	20%	100V
C702	1-164-070-11	CERAMIC	100PF	5%	50V
C703	1-162-219-31	CERAMIC	68PF	5%	50V
C704	1-102-316-00	CERAMIC	15PF	5%	500V
C705	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C706	1-124-443-00	ELECT	100uF	20%	10V
C716	1-124-931-11	ELECT	47uF	20%	100V
C727	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-164-077-11	CERAMIC	220PF	10%	50V
C737	1-124-927-11	ELECT	4.7uF	20%	100V
C751	1-124-927-11	ELECT	4.7uF	20%	100V
C752	1-164-070-11	CERAMIC	100PF	5%	50V
C753	1-162-219-31	CERAMIC	68PF	5%	50V
C754	1-102-316-00	CERAMIC	15PF	5%	500V
C755	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C756	1-124-443-00	ELECT	100uF	20%	10V
C766	1-124-931-11	ELECT	47uF	20%	100V
C786	1-164-077-11	CERAMIC	220PF	10%	50V
C787	1-124-927-11	ELECT	4.7uF	20%	100V
		< CONNECTOR >			
CNP761	1-691-163-11	PIN, CONNECTOR 6P			
* CNP762	1-691-175-11	CONNECTOR (BOARD TO BOARD) 5P			
CNP763	1-691-178-11	CONNECTOR (BOARD TO BOARD) 8P			
* CNP764	1-564-508-11	PLUG, CONNECTOR 5P			
		< IC >			
IC701	8-749-921-85	IC STK-3122-3			
IC710	8-759-634-51	IC M5218AP			

Ref.No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q255	8-729-900-63	TRANSISTOR	DTA124ES		
Q256	8-729-900-63	TRANSISTOR	DTA124ES		
Q720	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q721	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q770	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q771	8-729-141-30	TRANSISTOR	2SC3623A-LK		
		< RESISTOR >			
R259	1-249-437-11	CARBON	47K	5%	1/4W
R260	1-249-437-11	CARBON	47K	5%	1/4W
R261	1-249-417-11	CARBON	1K	5%	1/4W
R262	1-249-429-11	CARBON	10K	5%	1/4W
R263	1-249-429-11	CARBON	10K	5%	1/4W
R270	1-249-433-11	CARBON	22K	5%	1/4W
R271	1-249-433-11	CARBON	22K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W
R703	1-249-441-11	CARBON	100K	5%	1/4W
R704	1-249-413-11	CARBON	470	5%	1/4W
R705	1-249-441-11	CARBON	100K	5%	1/4W
R706	1-247-828-11	CARBON	750	5%	1/4W
R741	1-249-417-11	CARBON	1K	5%	1/4W
R742	1-249-441-11	CARBON	100K	5%	1/4W
R747	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W
R753	1-249-441-11	CARBON	100K	5%	1/4W
R754	1-249-413-11	CARBON	470	5%	1/4W
R755	1-249-441-11	CARBON	100K	5%	1/4W
R756	1-247-828-11	CARBON	750	5%	1/4W
R791	1-247-807-31	CARBON	100	5%	1/4W
R792	1-249-441-11	CARBON	100K	5%	1/4W
R797	1-249-417-11	CARBON	1K	5%	1/4W

****

BALANCE VOLUME | CONNECT(A) | CONNECT(B) | CONNECT(C) | DISPLAY

Ref.No.	Part No.	Description			Remark
*	1-644-266-11	BALANCE VOLUME BOARD			
		**********			
		< VARIABLE RESISTOR >			
RV401	1-241-963-11	RES, VAR, CARBON 100K/100K (BALANCE)			
**********					
*	1-644-257-11	CONNECT (A) BOARD			
		**********			
		< CONNECTOR >			
* CNS751	1-691-176-11	CONNECTOR (BOARD TO BOARD) 6P			
* CNS761	1-691-176-11	CONNECTOR (BOARD TO BOARD) 6P			
**********					
*	1-644-268-11	CONNECT (B) BOARD			
		**********			
		< CONNECTOR >			
CNP1	1-691-170-11	PIN, CONNECTOR 13P			
		< CONNECTOR >			
* CNS154	1-691-183-11	CONNECTOR (BOARD TO BOARD) 13P			
**********					
*	A-4360-682-A	CONNECT (C) BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C730	1-124-927-11	ELECT	4.7uF	20%	100V
C731	1-124-927-11	ELECT	4.7uF	20%	100V
C732	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C733	1-124-927-11	ELECT	4.7uF	20%	100V
C734	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C735	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C780	1-124-927-11	ELECT	4.7uF	20%	100V
C781	1-124-927-11	ELECT	4.7uF	20%	100V
C782	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C783	1-124-927-11	ELECT	4.7uF	20%	100V
C784	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C785	1-164-336-11	CERAMIC CHIP	0.33uF		25V
		< CONNECTOR >			
CNP301	1-764-173-11	PLUG, CONNECTOR 8P			
CNP450	1-691-164-11	PIN, CONNECTOR 7P			
		< IC >			
IC710	8-759-636-55	IC M5218AFP			

Ref.No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q258	8-729-201-56	TRANSISTOR 2SK246-GR2			
Q259	8-729-201-56	TRANSISTOR 2SK246-GR2			
Q722	8-729-802-80	TRANSISTOR 2SC3661			
Q772	8-729-802-80	TRANSISTOR 2SC3661			
		< RESISTOR >			
R256	1-216-097-00	METAL CHIP	100K	5%	1/10W
R257	1-216-097-00	METAL CHIP	100K	5%	1/10W
R738	1-216-097-00	METAL CHIP	100K	5%	1/10W
R739	1-216-113-00	METAL CHIP	470K	5%	1/10W
R740	1-216-049-00	METAL CHIP	1K	5%	1/10W
R742	1-216-073-00	METAL CHIP	10K	5%	1/10W
R743	1-216-101-00	METAL CHIP	150K	5%	1/10W
R744	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R745	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R747	1-216-049-00	METAL CHIP	1K	5%	1/10W
R781	1-216-039-00	METAL CHIP	390	5%	1/10W
R782	1-216-017-00	METAL CHIP	47	5%	1/10W
R788	1-216-097-00	METAL CHIP	100K	5%	1/10W
R789	1-216-113-00	METAL CHIP	470K	5%	1/10W
R790	1-216-049-00	METAL CHIP	1K	5%	1/10W
R792	1-216-073-00	METAL CHIP	10K	5%	1/10W
R793	1-216-101-00	METAL CHIP	150K	5%	1/10W
R794	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R795	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R797	1-216-049-00	METAL CHIP	1K	5%	1/10W
**********					
*	A-4365-811-A	DISPLAY BOARD, COMPLETE			
		**********			
*	4-952-472-01	HOLDER (S), FL TUBE			
*	4-952-473-01	HOLDER (S), LED			
		< CAPACITOR >			
C201	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C202	1-124-638-11	ELECT	22uF	20%	10V
C203	1-136-165-00	FILM	0.1uF	5%	50V
C204	1-124-916-11	ELECT	22uF	20%	63V
C207	1-136-165-00	FILM	0.1uF	5%	50V
C208	1-136-165-00	FILM	0.1uF	5%	50V
C211	1-124-916-11	ELECT	22uF	20%	63V
C212	1-104-905-11	CAP, DOUBLE LAYERS		0.22F	
C213	1-126-154-11	ELECT	47uF	20%	6.3V
C216	1-136-165-00	FILM	0.1uF	5%	50V
C217	1-164-097-11	CERAMIC	0.022uF		50V
C218	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C219	1-164-097-11	CERAMIC	0.022uF		50V

Ref.No.	Part No.	Description	Remark
		< FILTER >	
CF201	1-567-928-11	VIBLATOR, CERAMIC (20MHz)	
		< JACK >	
* CNJ202	1-565-295-11	PLUG, CONNECTOR 4P	
		< CONNECTOR >	
CNS11011	-691-644-11	SOCKET, CONNECTOR 7P	
* CNS201	1-695-382-11	PIN, CONNECTOR (PC BOARD) 21P	
		< DIODE >	
D202	8-719-313-72	LED SEL3810A-CD (D.B.F.B)	
D203	8-719-313-72	LED SEL3810A-CD (SURR)	
D204	8-719-313-72	LED SEL3810A-CD (EQ)	
D205	8-719-313-72	LED SEL3810A-CD (INDEX)	
D206	8-719-016-74	DIODE 1SS352	
D209	8-719-016-74	DIODE 1SS352	
D211	8-719-301-49	LED SEL2810A (MONITOR TAPE2)	
D212	8-719-313-72	LED SEL3810A-CD ((MUTING)	
D217	8-719-016-74	DIODE 1SS352	
D218	8-719-016-74	DIODE 1SS352	
D223	8-719-030-50	LED SEL6914W-TP6S (VIDEO 1)	
D224	8-719-030-50	LED SEL6914W-TP6S (VIDEO 2)	
D225	8-719-030-50	LED SEL6914W-TP6S (VIDEO 3)	
D226	8-719-030-50	LED SEL6914W-TP6S (TAPE 1)	
D227	8-719-030-50	LED SEL6914W-TP6S (DAT)	
D228	8-719-030-50	LED SEL6914W-TP6S (CD)	
D229	8-719-030-50	LED SEL6914W-TP6S (TUNER)	
D230	8-719-030-50	LED SEL6914W-TP6S (PHONO)	
D231	8-719-030-50	LED SEL6914W-TP6S (1)	
D232	8-719-030-50	LED SEL6914W-TP6S (2)	
D233	8-719-030-50	LED SEL6914W-TP6S (3)	
D234	8-719-030-50	LED SEL6914W-TP6S (4)	
D235	8-719-030-50	LED SEL6914W-TP6S (5)	
D236	8-719-030-50	LED SEL6914W-TP6S (6)	
D237	8-719-030-50	LED SEL6914W-TP6S (7)	
D238	8-719-030-50	LED SEL6914W-TP6S (8)	
D239	8-719-030-50	LED SEL6914W-TP6S (9)	
D240	8-719-030-50	LED SEL6914W-TP6S (0)	
D241	8-719-030-50	LED SEL6914W-TP6S (DOLBY SUR)	
D242	8-719-030-50	LED SEL6914W-TP6S (THEATER)	
D243	8-719-030-50	LED SEL6914W-TP6S (LIVE)	
D244	8-719-030-50	LED SEL6914W-TP6S (HALL)	
D245	8-719-030-50	LED SEL6914W-TP6S (DANCE)	
D246	8-719-030-50	LED SEL6914W-TP6S (JAZZ)	
D247	8-719-030-50	LED SEL6914W-TP6S (OPERA)	
D248	8-719-030-50	LED SEL6914W-TP6S (CHURCH)	
D249	8-719-030-50	LED SEL6914W-TP6S (STADIUM)	
D250	8-719-030-50	LED SEL6914W-TP6S (ACOUSTIC)	
D251	8-719-016-74	DIODE 1SS352	
D252	8-719-016-74	DIODE 1SS352	
		< FLUORESCENT INDICATOR, TUBE >	
FL201	1-519-724-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC201	8-759-075-35	IC TD62C950RF	
IC202	8-759-075-35	IC TD62C950RF	
IC203	8-759-182-69	IC HD6433258A79F	
IC204	8-749-920-83	IC GP1U52XB	
		< COIL >	
L201	1-410-377-31	INDUCTOR CHIP 4.7uH	
		< TRANSISTOR >	
Q201	8-729-207-68	TRANSISTOR RN2402	
Q202	8-729-805-41	TRANSISTOR 2SC3398	
Q203	8-729-805-43	TRANSISTOR 2SC3396	
Q213	8-729-805-43	TRANSISTOR 2SC3396	
Q223	8-729-805-43	TRANSISTOR 2SC3396	
		< RESISTOR >	
R201	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R202	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R203	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R204	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R205	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
⚠R206	1-249-381-11	CARBON 1 5% 1/4W F	
⚠R207	1-249-381-11	CARBON 1 5% 1/4W F	
R208	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R209	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R210	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R211	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R212	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R213	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R214	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R216	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R217	1-216-001-00	METAL CHIP 10 5% 1/10W	
R218	1-216-037-00	METAL CHIP 330 5% 1/10W	
R219	1-216-037-00	METAL CHIP 330 5% 1/10W	
R220	1-216-037-00	METAL CHIP 330 5% 1/10W	
R221	1-216-037-00	METAL CHIP 330 5% 1/10W	
R222	1-216-037-00	METAL CHIP 330 5% 1/10W	
R223	1-216-037-00	METAL CHIP 330 5% 1/10W	
R224	1-216-037-00	METAL CHIP 330 5% 1/10W	
R225	1-216-037-00	METAL CHIP 330 5% 1/10W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

DISPLAY | FRONT VIDEO | IMPEDANCE SELECTOR

Ref.No.	Part No.	Description				Remark
R226	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R227	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R228	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R229	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R230	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R231	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R232	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R233	1-216-037-00	METAL CHIP	330	5%	1/10W	
R234	1-216-037-00	METAL CHIP	330	5%	1/10W	
R237	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R238	1-216-037-00	METAL CHIP	330	5%	1/10W	
R239	1-216-037-00	METAL CHIP	330	5%	1/10W	
R240	1-216-025-00	METAL CHIP	100	5%	1/10W	
⚠R241	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R242	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R243	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R245	1-216-001-00	METAL CHIP	10	5%	1/10W	
⚠R246	1-247-807-31	CARBON	100	5%	1/4W	F
⚠R247	1-247-807-31	CARBON	100	5%	1/4W	F
R248	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R249	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R250	1-216-033-00	METAL CHIP	220	5%	1/10W	
R251	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R252	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R265	1-216-001-00	METAL CHIP	10	5%	1/10W	
		< SWITCH >				
S201	1-554-303-21	SWITCH, TACTILE (DISPLAY GRAPHIC)				
S202	1-554-303-21	SWITCH, TACTILE (DISPLAY INDEX)				
S203	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING-)				
S204	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING+)				
S205	1-554-303-21	SWITCH, TACTILE (PRESET TUNING-)				
S206	1-554-303-21	SWITCH, TACTILE (PRESET TUNING+)				
S207	1-554-303-21	SWITCH, TACTILE (TUNER TUNING LEVEL)				
S208	1-554-303-21	SWITCH, TACTILE (TUNER MEMORY)				
S209	1-554-303-21	SWITCH, TACTILE (TUNER DIRECT TUNING)				
S210	1-554-303-21	SWITCH, TACTILE (TUNER FM MODE)				
S211	1-554-303-21	SWITCH, TACTILE (TUNER AM/FM)				
S212	1-554-303-21	SWITCH, TACTILE (SOUND FILD LINK).				
S213	1-554-303-21	SWITCH, TACTILE (SOUND FILD ON/OFF)				
S214	1-554-303-21	SWITCH, TACTILE (SOUND FILD USER/PRESED)				
S215	1-554-303-21	SWITCH, TACTILE (PROLOGIC MODE)				
S216	1-554-303-21	SWITCH, TACTILE (EQUALIZER FLAT)				
S217	1-554-303-21	SWITCH, TACTILE (EQUALIZER SLOPE)				
S218	1-554-303-21	SWITCH, TACTILE (EQUQLIZER BAND)				
S222	1-554-303-21	SWITCH, TACTILE (EDIT VIDEO)				
S223	1-554-303-21	SWITCH, TACTILE (EDIT AUDIO)				
S224	1-554-303-21	SWITCH, TACTILE (MONITOR TAPE 2)				
S225	1-554-303-21	SWITCH, TACTILE (SHIFT)				

Ref.No.	Part No.	Description				Remark
S226	1-554-303-21	SWITCH, TACTILE (1 DOLBY SUR)				
S227	1-554-303-21	SWITCH, TACTILE (2 THEATER)				
S228	1-554-303-21	SWITCH, TACTILE (3 VIDEO 1 LIVE)				
S229	1-554-303-21	SWITCH, TACTILE (CURSOR MODE)				
S230	1-554-303-21	SWITCH, TACTILE (D.B.F.B)				
S231	1-554-303-21	SWITCH, TACTILE (MUTING -20dB)				
S232	1-554-303-21	SWITCH, TACTILE (4 VIDEO 2 HALL)				
S233	1-554-303-21	SWITCH, TACTILE (5 VIDEO 3 DANCE)				
S234	1-554-303-21	SWITCH, TACTILE (6 TAPE 1 JAZZ)				
S235	1-554-303-21	SWITCH, TACTILE (MODE SELECTOR)				
S236	1-554-303-21	SWITCH, TACTILE (▽)				
S237	1-554-303-21	SWITCH, TACTILE (△)				
S238	1-554-303-21	SWITCH, TACTILE (7 DAT OPERA)				
S239	1-554-303-21	SWITCH, TACTILE (8 CD CHURCH)				
S240	1-554-303-21	SWITCH, TACTILE (9 TUNER STADIUM)				
S241	1-554-303-21	SWITCH, TACTILE (0 PHONO ACOUSTIC)				
S242	1-554-303-21	SWITCH, TACTILE (◁)				
S243	1-554-303-21	SWITCH, TACTILE (▷)				
**********						
*	1-644-270-11	FRONT VIDEO BOARD				
		**********				
		< CONNECTOR >				
* CNS153	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P				
		< JACK >				
J131	1-580-174-31	JACK, PIN (3P FRONT)(VIDEO 3 INPUT)				
**********						
*	1-647-965-11	IMPEDANCE SELECTOR BOARD				
		**********				
		< CONNECTOR >				
CNP16011	-691-766-11	PLUG (MICRO CONNECTOR) 4P				
* CNP16021	-564-506-11	PLUG, CONNECTOR 3P				
		< TRANSISTOR >				
Q1701	8-729-620-05	TRANSISTOR 2SC2603-EF				
		< RESISTOR >				
R1701	1-249-429-11	CARBON	10K	5%	1/4W	
		< SWITCH >				
S602	1-571-083-11	SWITCH, SLIDE (FRONT SPEAKERS IMPEDANCE SELECTOR)				
**********						

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
*	A-4360-932-A	MAIN BOARD, COMPLETE			
		**********			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
*	4-904-446-01	PLATE, GROUND			
*	4-942-204-01	PLATE, GROUND			
*	4-880-403-11	HEAT SINK			
*	3-309-144-21	HEAT SINK			
*	4-931-903-01	HEAT SINK (DI)			
		< CAPACITOR >			
C251	1-124-925-11	ELECT	2.2uF	20%	100V
C252	1-164-159-11	CERAMIC	0.1uF		50V
C254	1-164-159-11	CERAMIC	0.1uF		50V
C255	1-164-159-11	CERAMIC	0.1uF		50V
C257	1-162-294-31	CERAMIC	0.001uF	10%	50V
C501	1-162-282-31	CERAMIC	100PF	10%	50V
C502	1-124-927-11	ELECT	4.7uF	20%	100V
C503	1-124-477-11	ELECT	47uF	20%	25V
C504	1-130-480-00	MYLAR	0.0056uF	5%	50V
C505	1-106-347-00	MYLAR	1500PF	5%	200V
C506	1-124-927-11	ELECT	4.7uF	20%	100V
C513	1-162-294-31	CERAMIC	0.001uF	10%	50V
C515	1-162-294-31	CERAMIC	0.001uF	10%	50V
C516	1-162-294-31	CERAMIC	0.001uF	10%	50V
C526	1-164-159-11	CERAMIC	0.1uF		50V
C551	1-162-282-31	CERAMIC	100PF	10%	50V
C552	1-124-927-11	ELECT	4.7uF	20%	100V
C553	1-124-477-11	ELECT	47uF	20%	25V
C554	1-130-480-00	MYLAR	0.0056uF	5%	50V
C555	1-106-347-00	MYLAR	1500PF	5%	200V
C556	1-124-927-11	ELECT	4.7uF	20%	100V
C590	1-124-927-11	ELECT	4.7uF	20%	100V
C651	1-124-907-11	ELECT	10uF	20%	50V
C652	1-164-083-11	CERAMIC	680PF	10%	50V
C654	1-161-959-00	CERAMIC	22PF	10%	500V
C655	1-124-477-11	ELECT	47uF	20%	25V
C656	1-164-014-11	CERAMIC	5PF	0.25PF	50V
C657	1-161-959-00	CERAMIC	22PF	10%	500V
C658	1-126-022-11	ELECT	47uF	20%	10V
C659	1-136-157-00	FILM	0.022uF	5%	50V
C661	1-136-165-00	FILM	0.1uF	5%	50V
C663	1-164-077-11	CERAMIC	220PF	10%	50V
C680	1-124-931-11	ELECT	47uF	20%	100V
C707	1-124-477-11	ELECT	47uF	20%	25V
C708	1-102-233-00	CERAMIC	33PF	10%	500V
C709	1-102-233-00	CERAMIC	33PF	10%	500V
C711	1-136-165-00	FILM	0.1uF	5%	50V
C712	1-136-157-00	FILM	0.022uF	5%	50V
C714	1-124-925-11	ELECT	2.2uF	20%	100V
C715	1-124-472-11	ELECT	470uF	20%	10V
C757	1-124-477-11	ELECT	47uF	20%	25V
C758	1-102-233-00	CERAMIC	33PF	10%	500V
C759	1-102-233-00	CERAMIC	33PF	10%	500V
C761	1-136-165-00	FILM	0.1uF	5%	50V
C762	1-136-157-00	FILM	0.022uF	5%	50V
C963	1-126-955-11	ELECT	4700uF	20%	35V
C964	1-124-910-11	ELECT	47uF	20%	50V
C965	1-126-955-11	ELECT	4700uF	20%	35V
C966	1-124-477-11	ELECT	47uF	20%	25V
C967	1-124-477-11	ELECT	47uF	20%	25V
C968	1-124-898-11	ELECT	4700uF	20%	16V
C969	1-124-477-11	ELECT	47uF	20%	25V
C971	1-124-667-11	ELECT	10uF	20%	100V
C980	1-106-391-12	MYLAR	0.1uF	5%	200V
C981	1-106-391-12	MYLAR	0.1uF	5%	200V
C982	1-125-752-11	ELECT	12000uF	20%	71V
C983	1-125-752-11	ELECT	12000uF	20%	71V
C991	1-164-096-11	CERAMIC	0.01uF		50V
C992	1-164-096-11	CERAMIC	0.01uF		50V
C993	1-164-096-11	CERAMIC	0.01uF		50V
C994	1-164-096-11	CERAMIC	0.01uF		50V
		< FILTER >			
CF251	1-567-928-11	VIBLATOR, CERAMIC (10MHz)			
		< CONNECTOR >			
* CNP153	1-560-330-00	CONNECTOR PIN (L)			
CNP154	1-691-170-11	PIN, CONNECTOR 13P			
CNP251	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
* CNP253	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP551	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP554	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP651	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP652	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
* CNP653	1-564-509-11	PLUG, CONNECTOR 6P			
* CNP654	1-564-507-11	PLUG, CONNECTOR 4P			
CNP751	1-691-163-11	PIN, CONNECTOR 6P			
CNP752	1-691-162-11	PIN, CONNECTOR 5P			
CNP753	1-691-165-11	PIN, CONNECTOR 8P			
* CNP754	1-564-242-00	PIN, CONNECTOR 5P			
CNP951	1-564-104-00	PIN, CONNECTOR 3P			
CNP953	1-564-242-00	PIN, CONNECTOR 5P			
		< CONNECTOR >			
CNS252	1-568-838-11	SOCKET, CONNECTOR 21P			
* CNS253	1-568-824-11	SOCKET, CONNECTOR 5P			

MAIN

Ref.No.	Part No.	Description	Remark
CNS351	1-695-218-11	SOCKET, CONNECTOR 33P	
		< DIODE >	
D252	8-719-987-63	DIODE 1N4148M	
D501	8-719-987-63	DIODE 1N4148M	
D610	8-719-987-63	DIODE 1N4148M	
D623	8-719-987-63	DIODE 1N4148M	
D651	8-719-933-35	DIODE HZS6A3L	
D652	8-719-987-63	DIODE 1N4148M	
D654	8-719-815-85	DIODE 1S1585	
D705	8-719-987-63	DIODE 1N4148M	
D716	8-719-815-85	DIODE 1S1585	
D718	8-719-987-63	DIODE 1N4148M	
D720	8-719-987-63	DIODE 1N4148M	
D723	8-719-987-63	DIODE 1N4148M	
D731	8-719-987-63	DIODE 1N4148M	
D766	8-719-815-85	DIODE 1S1585	
D963	8-719-002-70	DIODE UZL-36L	
D970	8-719-312-09	DIODE RBA-402	
D971	8-719-312-09	DIODE RBA-402	
D973	8-719-987-63	DIODE 1N4148M	
D980	8-719-302-38	DIODE RBV-602-01	
		< IC >	
IC150	8-759-177-83	IC HD6433258-A74F	
IC231	8-759-820-62	IC LB1639	
IC501	8-759-111-44	IC UPC4570C-1	
IC510	8-759-805-14	IC LC7822	
IC511	8-759-805-14	IC LC7822	
IC514	8-759-801-01	IC LC4966	
IC951	8-759-604-40	IC M5F78M15L	
IC952	8-759-604-46	IC M5F79M15L	
IC953	8-759-604-35	IC M5F78M05L	
		< JACK >	
J501	1-691-260-11	JACK, PIN 6P (PHONO IN/CD IN/DAT(REC OUT))	
J502	1-691-260-11	JACK, PIN 6P (DAT IN/TAPE 1(REC OUT/IN))	
J503	1-691-260-11	JACK, PIN 6P (VIDEO 2 AUDIO IN/VIDEO 1(OUT/IN))	
J504	1-573-520-11	JACK, PIN 4P (TAPE 2(REC OUT/IN))	
		< COIL >	
L602	1-420-872-00	COIL, AIR CORE	
L701	1-420-872-00	COIL, AIR CORE	
L751	1-420-872-00	COIL, AIR CORE	
		< TRANSISTOR >	
Q250	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q257	8-729-900-63	TRANSISTOR DTA124ES	
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q503	8-729-900-61	TRANSISTOR DTA114ES	
Q507	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q508	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q509	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q510	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q511	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q512	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q520	8-729-900-80	TRANSISTOR DTC114ES	
Q521	8-729-900-61	TRANSISTOR DTA114ES	
Q522	8-729-900-80	TRANSISTOR DTC114ES	
Q523	8-729-900-61	TRANSISTOR DTA114ES	
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q644	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q651	8-729-620-18	TRANSISTOR 2SA979-FG	
Q652	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q653	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q655	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q656	8-729-141-06	TRANSISTOR 2SA1142-QPE	
Q657	8-729-209-15	TRANSISTOR 2SD2012	
Q658	8-729-141-05	TRANSISTOR 2SC2682-QPE	
Q662	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q663	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q664	8-729-321-24	TRANSISTOR 2SA1672-OY	
Q665	8-729-321-21	TRANSISTOR 2SC4387-OY	
Q667	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q704	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q705	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q708	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q709	8-729-320-73	TRANSISTOR 2SA1215-OY	
Q712	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q714	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q715	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q716	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q752	8-729-209-15	TRANSISTOR 2SD2012	
Q754	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q755	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q758	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q759	8-729-320-73	TRANSISTOR 2SA1215-OY	
Q767	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q961	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R114	1-249-417-11	CARBON 1K 5% 1/4W	
R116	1-249-417-11	CARBON 1K 5% 1/4W	

Ref. No.	Part No.	Description				Remark
R138	1-249-417-11	CARBON	1K	5%	1/4W	
R141	1-249-417-11	CARBON	1K	5%	1/4W	
R191	1-249-417-11	CARBON	1K	5%	1/4W	
R251	1-249-422-11	CARBON	2.7K	5%	1/4W	
R252	1-249-441-11	CARBON	100K	5%	1/4W	
R253	1-249-425-11	CARBON	4.7K	5%	1/4W	
R254	1-249-417-11	CARBON	1K	5%	1/4W	
R255	1-247-903-00	CARBON	1M	5%	1/4W	
R258	1-249-437-11	CARBON	47K	5%	1/4W	
R266	1-249-429-11	CARBON	10K	5%	1/4W	
R267	1-249-429-11	CARBON	10K	5%	1/4W	
R268	1-249-429-11	CARBON	10K	5%	1/4W	
R269	1-249-413-11	CARBON	470	5%	1/4W	
R273	1-249-437-11	CARBON	47K	5%	1/4W	
R274	1-249-429-11	CARBON	10K	5%	1/4W	
R278	1-249-437-11	CARBON	47K	5%	1/4W	
R501	1-249-411-11	CARBON	330	5%	1/4W	
R502	1-249-441-11	CARBON	100K	5%	1/4W	
R503	1-249-441-11	CARBON	100K	5%	1/4W	
R504	1-249-416-11	CARBON	820	5%	1/4W	
R505	1-247-897-11	CARBON	560K	5%	1/4W	
R506	1-249-437-11	CARBON	47K	5%	1/4W	
R507	1-247-903-00	CARBON	1M	5%	1/4W	
R508	1-249-409-11	CARBON	220	5%	1/4W	
R509	1-249-409-11	CARBON	220	5%	1/4W	
R510	1-249-438-11	CARBON	56K	5%	1/4W	
R511	1-249-417-11	CARBON	1K	5%	1/4W	
R513	1-249-417-11	CARBON	1K	5%	1/4W	
R514	1-249-417-11	CARBON	1K	5%	1/4W	
R515	1-249-417-11	CARBON	1K	5%	1/4W	
R517	1-249-417-11	CARBON	1K	5%	1/4W	
R518	1-249-417-11	CARBON	1K	5%	1/4W	
R520	1-249-441-11	CARBON	100K	5%	1/4W	
R521	1-249-417-11	CARBON	1K	5%	1/4W	
R522	1-249-429-11	CARBON	10K	5%	1/4W	
R523	1-249-426-11	CARBON	5.6K	5%	1/4W	
R524	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R526	1-247-811-31	CARBON	150	5%	1/4W	F
R531	1-249-425-11	CARBON	4.7K	5%	1/4W	
R533	1-249-425-11	CARBON	4.7K	5%	1/4W	
R539	1-249-433-11	CARBON	22K	5%	1/4W	
R540	1-249-413-11	CARBON	470	5%	1/4W	
R541	1-249-413-11	CARBON	470	5%	1/4W	
R542	1-249-413-11	CARBON	470	5%	1/4W	
R543	1-249-413-11	CARBON	470	5%	1/4W	
R544	1-249-413-11	CARBON	470	5%	1/4W	
R545	1-249-413-11	CARBON	470	5%	1/4W	
R547	1-249-417-11	CARBON	1K	5%	1/4W	
R548	1-249-417-11	CARBON	1K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R551	1-249-411-11	CARBON	330	5%	1/4W	
R552	1-249-441-11	CARBON	100K	5%	1/4W	
R553	1-249-441-11	CARBON	100K	5%	1/4W	
R554	1-249-416-11	CARBON	820	5%	1/4W	
R555	1-247-897-11	CARBON	560K	5%	1/4W	
R556	1-249-437-11	CARBON	47K	5%	1/4W	
R557	1-247-903-00	CARBON	1M	5%	1/4W	
R558	1-249-409-11	CARBON	220	5%	1/4W	
R559	1-249-409-11	CARBON	220	5%	1/4W	
R560	1-249-438-11	CARBON	56K	5%	1/4W	
R561	1-249-417-11	CARBON	1K	5%	1/4W	
R563	1-249-417-11	CARBON	1K	5%	1/4W	
R564	1-249-417-11	CARBON	1K	5%	1/4W	
R565	1-249-417-11	CARBON	1K	5%	1/4W	
R567	1-249-417-11	CARBON	1K	5%	1/4W	
R568	1-249-417-11	CARBON	1K	5%	1/4W	
R571	1-249-417-11	CARBON	1K	5%	1/4W	
R574	1-249-441-11	CARBON	100K	5%	1/4W	
R589	1-249-433-11	CARBON	22K	5%	1/4W	
R590	1-249-426-11	CARBON	5.6K	5%	1/4W	
R591	1-249-441-11	CARBON	100K	5%	1/4W	
R592	1-249-433-11	CARBON	22K	5%	1/4W	
R593	1-249-426-11	CARBON	5.6K	5%	1/4W	
R594	1-249-426-11	CARBON	5.6K	5%	1/4W	
R595	1-249-426-11	CARBON	5.6K	5%	1/4W	
R596	1-249-426-11	CARBON	5.6K	5%	1/4W	
R597	1-249-417-11	CARBON	1K	5%	1/4W	
R598	1-249-417-11	CARBON	1K	5%	1/4W	
R599	1-249-426-11	CARBON	5.6K	5%	1/4W	
R635	1-260-072-11	CARBON	4.7	5%	1/2W	
R644	1-249-429-11	CARBON	10K	5%	1/4W	
R650	1-249-434-11	CARBON	27K	5%	1/4W	
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R653	1-249-409-11	CARBON	220	5%	1/4W	
⚠R654	1-249-409-11	CARBON	220	5%	1/4W	
R655	1-249-415-11	CARBON	680	5%	1/4W	
R656	1-249-421-11	CARBON	2.2K	5%	1/4W	
R657	1-249-425-11	CARBON	4.7K	5%	1/4W	
R658	1-249-435-11	CARBON	33K	5%	1/4W	
R659	1-249-426-11	CARBON	5.6K	5%	1/4W	
R662	1-249-411-11	CARBON	330	5%	1/4W	
R663	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R664	1-249-397-11	CARBON	22	5%	1/4W	
⚠R665	1-247-807-31	CARBON	100	5%	1/4W	F
R666	1-249-419-11	CARBON	1.5K	5%	1/4W	
R667	1-249-437-11	CARBON	47K	5%	1/4W	
R668	1-249-414-11	CARBON	560	5%	1/4W	
⚠R669	1-249-397-11	CARBON	22	5%	1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN POWER SUPPLY

Ref. No.	Part No.	Description			Remark
⚠R670	1-247-807-31	CARBON	100	5%	1/4W F
R671	1-249-431-11	CARBON	15K	5%	1/4W
R672	1-260-076-11	CARBON	10	5%	1/2W
⚠R675	1-249-389-11	CARBON	4.7	5%	1/4W F
⚠R676	1-249-411-11	CARBON	330	5%	1/4W
⚠R677	1-249-389-11	CARBON	4.7	5%	1/4W F
⚠R678	1-217-611-00	RES, METAL PLATE			0.1
⚠R679	1-217-611-00	RES, METAL PLATE			0.1
⚠R680	1-249-397-11	CARBON	22	5%	1/4W F
R681	1-249-419-11	CARBON	1.5K	5%	1/4W
R683	1-249-431-11	CARBON	15K	5%	1/4W
R692	1-249-435-11	CARBON	33K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
⚠R707	1-247-807-31	CARBON	100	5%	1/4W F
R708	1-249-419-11	CARBON	1.5K	5%	1/4W
R709	1-249-437-11	CARBON	47K	5%	1/4W
⚠R710	1-247-807-31	CARBON	100	5%	1/4W F
⚠R711	1-247-807-31	CARBON	100	5%	1/4W F
⚠R712	1-249-393-11	CARBON	10	5%	1/4W F
⚠R713	1-217-611-00	RES, METAL PLATE			0.1
⚠R714	1-217-611-00	RES, METAL PLATE			0.1
⚠R715	1-249-393-11	CARBON	10	5%	1/4W F
R725	1-249-419-11	CARBON	1.5K	5%	1/4W
R728	1-249-431-11	CARBON	15K	5%	1/4W
R729	1-260-072-11	CARBON	4.7	5%	1/2W
R730	1-260-076-11	CARBON	10	5%	1/2W
R731	1-249-429-11	CARBON	10K	5%	1/4W
R732	1-249-434-11	CARBON	27K	5%	1/4W
R733	1-249-437-11	CARBON	47K	5%	1/4W
R734	1-249-417-11	CARBON	1K	5%	1/4W
R735	1-249-434-11	CARBON	27K	5%	1/4W
⚠R737	1-249-401-11	CARBON	47	5%	1/4W F
⚠R757	1-247-807-31	CARBON	100	5%	1/4W F
R758	1-249-419-11	CARBON	1.5K	5%	1/4W
R759	1-249-437-11	CARBON	47K	5%	1/4W
⚠R760	1-247-807-31	CARBON	100	5%	1/4W F
⚠R761	1-247-807-31	CARBON	100	5%	1/4W F
⚠R762	1-249-393-11	CARBON	10	5%	1/4W F
⚠R763	1-217-611-00	RES, METAL PLATE			0.1
⚠R764	1-217-611-00	RES, METAL PLATE			0.1
⚠R765	1-249-393-11	CARBON	10	5%	1/4W F
R775	1-249-419-11	CARBON	1.5K	5%	1/4W
R778	1-249-431-11	CARBON	15K	5%	1/4W
R779	1-260-072-11	CARBON	4.7	5%	1/2W
R780	1-260-076-11	CARBON	10	5%	1/2W
⚠R783	1-247-743-11	CARBON	220	5%	1/2W F
R785	1-249-437-11	CARBON	47K	5%	1/4W
⚠R787	1-249-401-11	CARBON	47	5%	1/4W F
R966	1-249-381-11	CARBON	1	5%	1/4W
R967	1-249-385-11	CARBON	2.2	5%	1/6W
⚠R968	1-249-403-11	CARBON	68	5%	1/4W F
⚠R969	1-249-403-11	CARBON	68	5%	1/4W F
R970	1-249-426-11	CARBON	5.6K	5%	1/4W
⚠R971	1-215-910-00	METAL OXIDE	68	5%	3W F
⚠R972	1-215-910-00	METAL OXIDE	68	5%	3W F
⚠R973	1-249-397-11	CARBON	22	5%	1/4W F
R1708	1-249-414-11	CARBON	560	5%	1/4W
R1709	1-249-431-11	CARBON	15K	5%	1/4W
R1758	1-249-414-11	CARBON	560	5%	1/4W
R1759	1-249-431-11	CARBON	15K	5%	1/4W

< RELAY >

RY501	1-515-614-11	RELAY
RY602	1-515-676-11	RELAY
RY701	1-515-741-11	RELAY

< TEST PIN >

* TP701	1-560-062-00	PIN, CONNECTOR 4P
* TP702	1-560-060-00	PIN, CONNECTOR 2P

****

*	A-4365-126-A	POWER SUPPLY BOARD, COMPLET
		**********
	1-533-233-11	HOLDER, FUSE
*	3-309-144-21	HEAT SINK
*	4-959-363-01	PLATE (V.D), GROUND
	7-682-547-09	SCREW +BVTT 3X6 (S)

< BASE POST >

* BP901	1-535-139-00	BASE POST 19MM (10MM PITCH) 2P

< CAPACITOR >

Ref. No.	Part No.	Description			Remark
⚠C901	1-161-744-51	CERAMIC	0.01uF		400V
C951	1-101-004-00	CERAMIC	0.01uF		50V
C952	1-101-004-00	CERAMIC	0.01uF		50V
C953	1-164-073-11	CERAMIC	100PF	10%	50V
C954	1-124-907-11	ELECT	10uF	20%	50V
C955	1-124-477-11	ELECT	47uF	20%	25V
C956	1-124-464-11	ELECT	0.22uF	20%	50V
C957	1-124-902-00	ELECT	0.47uF	20%	50V
C958	1-101-004-00	CERAMIC	0.01uF		50V
C959	1-124-557-11	ELECT	1000uF	20%	25V
C960	1-124-903-11	ELECT	1uF	20%	50V

< CONNECTOR >

* CNP901	1-564-321-00	PIN, CONNECTOR 2P
CNP902	1-564-321-00	PIN, CONNECTOR 2P

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
		< CONNECTOR >			
⚠CNS901	1-540-060-11	OUTLET, AC (POLAR)(AC OUTLET)			
CNS951	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
		< DIODE >			
D951	8-719-987-63	DIODE 1N4148M			
D952	8-719-987-63	DIODE 1N4148M			
D953	8-719-987-63	DIODE 1N4148M			
D954	8-719-200-02	DIODE 10E2			
D955	8-719-200-02	DIODE 10E2			
D956	8-719-200-02	DIODE 10E2			
D957	8-719-200-02	DIODE 10E2			
D958	8-719-933-41	DIODE HZS6C3L			
D959	8-719-985-53	DIODE HZS4ALL			
D960	8-719-987-63	DIODE 1N4148M			
D961	8-719-933-41	DIODE HZS6C3L			
		< FUSE >			
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A/125V)			
		< TRANSISTOR >			
Q952	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q953	8-729-209-15	TRANSISTOR 2SD2012			
Q954	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q955	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q956	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q957	8-729-900-63	TRANSISTOR DTA124ES			
Q958	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q959	8-729-900-89	TRANSISTOR DTC144ES			
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W
⚠R951	1-247-691-11	CARBON	18	5%	1/4W
R952	1-249-417-11	CARBON	1K	5%	1/4W
R954	1-249-433-11	CARBON	22K	5%	1/4W
R955	1-249-437-11	CARBON	47K	5%	1/4W
R956	1-249-425-11	CARBON	4.7K	5%	1/4W
R957	1-249-429-11	CARBON	10K	5%	1/4W
R958	1-249-417-11	CARBON	1K	5%	1/4W
R959	1-249-429-11	CARBON	10K	5%	1/4W
R960	1-249-429-11	CARBON	10K	5%	1/4W
R962	1-249-426-11	CARBON	5.6K	5%	1/4W
R963	1-249-417-11	CARBON	1K	5%	1/4W
R964	1-249-426-11	CARBON	5.6K	5%	1/4W
R965	1-247-895-00	CARBON	470K	5%	1/4W

Ref.No.	Part No.	Description			Remark
		< RELAY >			
⚠RY901	1-515-701-11	RELAY			
		< TRANSFORMER >			
⚠T901	1-448-517-21	TRANSFORMER, POWER			
⚠T901	1-448-517-31	TRANSFORMER, POWER			
**********					
*	A-4360-930-A	REAR AMPLIFIER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C601	1-124-907-11	ELECT	10uF	20%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-124-916-11	ELECT	22uF	20%	63V
C604	1-124-667-11	ELECT	10uF	20%	100V
C607	1-136-157-00	FILM	0.022uF	5%	50V
C621	1-124-907-11	ELECT	10uF	20%	50V
C622	1-162-282-31	CERAMIC	100PF	10%	50V
C623	1-124-916-11	ELECT	22uF	20%	63V
C624	1-124-667-11	ELECT	10uF	20%	100V
C627	1-136-157-00	FILM	0.022uF	5%	50V
		< CONNECTOR >			
* CNP631	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP632	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP633	1-564-506-11	PLUG, CONNECTOR 3P			
CNP634	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
		< IC >			
IC601	8-759-085-89	IC LM3875-S			
IC621	8-759-085-89	IC LM3875-S			
		< COIL >			
L601	1-420-872-00	COIL, AIR CORE			
L621	1-420-872-00	COIL, AIR CORE			
		< RESISTOR >			
R601	1-249-409-11	CARBON	220	5%	1/4W
R602	1-249-441-11	CARBON	100K	5%	1/4W
R603	1-249-420-11	CARBON	1.8K	5%	1/4W
R604	1-249-441-11	CARBON	100K	5%	1/4W
R607	1-249-438-11	CARBON	56K	5%	1/4W
⚠R608	1-249-393-11	CARBON	10	5%	1/4W F
R611	1-249-389-11	CARBON	4.7	5%	1/4W
R621	1-249-409-11	CARBON	220	5%	1/4W
R622	1-249-441-11	CARBON	100K	5%	1/4W
R623	1-249-420-11	CARBON	1.8K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

REAR AMPLIFIER | S.IN | SPEAKER SW | SPEAKER TERMINAL | SURROUND

Ref.No.	Part No.	Description				Remark
R624	1-249-441-11	CARBON	100K	5%	1/4W	
R627	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R628	1-249-393-11	CARBON	10	5%	1/4W	F
R631	1-249-389-11	CARBON	4.7	5%	1/4W	
⚠R691	1-249-401-11	CARBON	47	5%	1/4W	F
**********						
*	1-648-947-11	S.IN BOARD				
		**********				
		< CAPACITOR >				
C1101	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >				
CNP11011	-566-213-11	PIN, CONNECTOR 4P				
* CNP11021	-568-826-11	SOCKET, CONNECTOR 7P				
		< DIODE >				
D1101	8-719-210-33	DIODE EC10DS2				
		< TRANSISTOR >				
Q1101	8-729-422-29	TRANSISTOR 2SD601A-S				
Q1102	8-729-805-41	TRANSISTOR 2SC3398				
Q1103	8-729-805-41	TRANSISTOR 2SC3398				
		< RESISTOR >				
R1101	1-216-033-00	METAL CHIP	220	5%	1/10W	
R1102	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R1103	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R1104	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R1105	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R1106	1-216-001-00	METAL CHIP	10	5%	1/10W	
**********						
*	1-644-263-11	SPEAKER SW BOARD				
		**********				
		< CAPACITOR >				
C1701	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
* CNP704	1-564-242-00	PIN, CONNECTOR 5P				
* CNP710	1-564-674-11	PIN, CONNECTOR 8P				
		< JACK >				
J703	1-563-347-11	JACK, LARGE TYPE (HEADPHONES)				

Ref.No.	Part No.	Description				Remark
		< RESISTOR >				
⚠R736	1-215-869-11	METAL OXIDE	1K	5%	1W	F
⚠R786	1-215-869-11	METAL OXIDE	1K	5%	1W	F
		< SWITCH >				
S701	1-571-973-11	SWITCH, ROTARY				
**********						
*	1-644-261-11	SPEAKER TERMINAL BOARD				
		**********				
		< CAPACITOR >				
C641	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C642	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
* CNP610	1-564-519-11	PLUG, CONNECTOR 4P				
* CNP611	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				
* CNP614	1-564-519-11	PLUG, CONNECTOR 4P				
* CNP615	1-564-518-11	PLUG, CONNECTOR 3P				
* CNP715	1-564-674-11	PIN, CONNECTOR 8P				
		< DIODE >				
D612	8-719-987-63	DIODE 1N4148M				
		< TRANSISTOR >				
Q641	8-729-620-05	TRANSISTOR 2SC2603-EF				
		< RESISTOR >				
R643	1-249-429-11	CARBON	10K	5%	1/4W	
R1601	1-249-417-11	CARBON	1K	5%	1/4W	
		< RELAY >				
RY603	1-515-790-11	RELAY				
		< TERMINAL >				
TM602	1-536-706-00	TERMINAL BOARD (SP) (CENTER SPEAKER, REAR SPEAKER)				
TM701	1-536-706-00	TERMINAL BOARD (SP) (FRONT SPEAKER A, B)				
**********						
*	A-4360-681-A	SURROUND BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C301	1-124-477-11	ELECT	47uF	20%	25V	
C302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C303	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
C304	1-124-477-11	ELECT	47uF	20%	25V
C305	1-136-153-00	FILM	0.01uF	5%	50V
C306	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C307	1-124-907-11	ELECT	10uF	20%	50V
C308	1-124-477-11	ELECT	47uF	20%	25V
C309	1-124-916-11	ELECT	22uF	20%	63V
C310	1-124-916-11	ELECT	22uF	20%	63V
C311	1-136-165-00	FILM	0.1uF	5%	50V
C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C313	1-164-068-11	CERAMIC	82PF	5%	50V
C315	1-130-479-00	MYLAR	0.0047uF	5%	50V
C318	1-164-057-11	CERAMIC	30PF	5%	50V
C319	1-164-057-11	CERAMIC	30PF	5%	50V
C320	1-130-472-00	MYLAR	0.0012uF	5%	50V
C321	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C322	1-124-916-11	ELECT	22uF	20%	63V
C323	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C324	1-124-907-11	ELECT	10uF	20%	50V
C325	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C326	1-124-477-11	ELECT	47uF	20%	25V
C327	1-124-916-11	ELECT	22uF	20%	63V
C328	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C329	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C330	1-124-477-11	ELECT	47uF	20%	25V
C331	1-124-477-11	ELECT	47uF	20%	25V
C332	1-130-473-00	MYLAR	0.0015uF	5%	50V
C333	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C334	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C335	1-130-478-00	MYLAR	0.0039uF	5%	50V
C336	1-124-916-11	ELECT	22uF	20%	63V
C337	1-136-165-00	FILM	0.1uF	5%	50V
C341	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C342	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C343	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C344	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C346	1-124-478-11	ELECT	100uF	20%	25V
C351	1-124-916-11	ELECT	22uF	20%	63V
C352	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C353	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C354	1-136-153-00	FILM	0.01uF	5%	50V
C355	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C356	1-124-477-11	ELECT	47uF	20%	25V
C357	1-124-907-11	ELECT	10uF	20%	50V
C359	1-124-916-11	ELECT	22uF	20%	63V
C363	1-164-068-11	CERAMIC	82PF	5%	50V
C365	1-130-479-00	MYLAR	0.0047uF	5%	50V
C368	1-164-057-11	CERAMIC	30PF	5%	50V
C369	1-164-057-11	CERAMIC	30PF	5%	50V
C370	1-130-472-00	MYLAR	0.0012uF	5%	50V
C371	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C372	1-124-916-11	ELECT	22uF	20%	63V
C373	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C374	1-124-907-11	ELECT	10uF	20%	50V
C375	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C376	1-124-477-11	ELECT	47uF	20%	25V
C377	1-124-916-11	ELECT	22uF	20%	63V
C378	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C382	1-130-473-00	MYLAR	0.0015uF	5%	50V
C383	1-124-907-11	ELECT	10uF	20%	50V
C384	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C385	1-130-478-00	MYLAR	0.0039uF	5%	50V
C386	1-124-916-11	ELECT	22uF	20%	63V
C392	1-124-903-11	ELECT	1uF	20%	50V
C393	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C394	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C396	1-124-478-11	ELECT	100uF	20%	25V
C405	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C427	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C428	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C429	1-124-477-11	ELECT	47uF	20%	25V
C430	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C431	1-124-478-11	ELECT	100uF	20%	25V
C435	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C436	1-124-478-11	ELECT	100uF	20%	25V
C440	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C441	1-124-478-11	ELECT	100uF	20%	25V
C442	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C446	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C451	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C452	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C468	1-124-907-11	ELECT	10uF	20%	50V
C469	1-124-907-11	ELECT	10uF	20%	50V
C470	1-124-907-11	ELECT	10uF	20%	50V
C471	1-124-907-11	ELECT	10uF	20%	50V
C472	1-124-907-11	ELECT	10uF	20%	50V
C473	1-124-907-11	ELECT	10uF	20%	50V
C474	1-124-907-11	ELECT	10uF	20%	50V
C475	1-124-907-11	ELECT	10uF	20%	50V
C476	1-124-903-11	ELECT	1uF	20%	50V
C477	1-124-903-11	ELECT	1uF	20%	50V
C478	1-124-478-11	ELECT	100uF	20%	25V
C479	1-136-171-00	FILM	0.33uF	5%	50V
C480	1-136-165-00	FILM	0.1uF	5%	50V
C481	1-136-159-00	FILM	0.033uF	5%	50V
C482	1-130-479-00	MYLAR	0.0047uF	5%	50V
C483	1-130-482-00	MYLAR	0.0082uF	5%	50V
C484	1-136-158-00	FILM	0.027uF	5%	50V
C485	1-124-916-11	ELECT	22uF	20%	63V

SURROUND

Ref.No.	Part No.	Description			Remark
C486	1-124-478-11	ELECT	100uF	20%	25V
C487	1-124-903-11	ELECT	1uF	20%	50V
C488	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C489	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
* CNP302	1-564-506-11	PLUG, CONNECTOR 3P			
		< CONNECTOR >			
* CNS301	1-565-484-11	CONNECTOR, BOARD TO BOARD 8P			
CNS303	1-695-218-11	SOCKET, CONNECTOR 33P			
		< FERRITE BEAD >			
FB401	1-410-397-21	FERRITE BEAD INDUCTOR			
		< IC >			
IC301	8-759-504-36	IC CS5339-KP			
IC302	8-759-636-55	IC M5218AFP			
IC303	8-759-708-05	IC NJM78L05A			
IC304	8-759-700-65	IC NJM79L05A			
IC305	8-759-636-55	IC M5218AFP			
IC306	8-759-636-55	IC M5218AFP			
IC307	8-759-040-59	IC LC7883K			
IC308	8-759-636-55	IC M5218AFP			
IC309	8-759-636-55	IC M5218AFP			
IC355	8-759-636-55	IC M5218AFP			
IC403	8-759-708-05	IC NJM78L05A			
IC404	8-759-075-34	IC LC83015			
IC405	8-752-359-50	IC CXD2564AM			
IC406	8-759-165-17	IC MT4C4256-8A			
IC408	8-759-708-05	IC NJM78L05A			
IC418	8-759-820-11	IC LC7535			
IC419	8-759-636-55	IC M5218AFP			
IC420	8-759-823-24	IC LA2730			
IC421	8-759-801-01	IC LC4966			
		< COIL >			
L301	1-410-377-31	INDUCTOR CHIP	4.7uH		
L302	1-410-377-31	INDUCTOR CHIP	4.7uH		
L404	1-410-377-31	INDUCTOR CHIP	4.7uH		
L405	1-410-377-31	INDUCTOR CHIP	4.7uH		
L410	1-410-377-31	INDUCTOR CHIP	4.7uH		
		< TRANSISTOR >			
Q301	8-729-422-29	TRANSISTOR	2SD601A-S		
Q302	8-729-422-29	TRANSISTOR	2SD601A-S		
Q303	8-729-422-29	TRANSISTOR	2SD601A-S		
Q304	8-729-422-29	TRANSISTOR	2SD601A-S		
Q305	8-729-422-29	TRANSISTOR	2SD601A-S		
Q306	8-729-422-29	TRANSISTOR	2SD601A-S		
Q351	8-729-422-29	TRANSISTOR	2SD601A-S		
Q352	8-729-422-29	TRANSISTOR	2SD601A-S		
Q353	8-729-422-29	TRANSISTOR	2SD601A-S		
Q354	8-729-422-29	TRANSISTOR	2SD601A-S		
Q355	8-729-422-29	TRANSISTOR	2SD601A-S		
Q356	8-729-422-29	TRANSISTOR	2SD601A-S		
Q406	8-729-207-68	TRANSISTOR	RN2402		
Q407	8-729-207-68	TRANSISTOR	RN2402		
Q408	8-729-207-68	TRANSISTOR	RN2402		
Q409	8-729-207-68	TRANSISTOR	RN2402		
Q411	8-729-805-45	TRANSISTOR	2SC3395		
Q412	8-729-901-06	TRANSISTOR	DTA144EK		
Q413	8-729-805-45	TRANSISTOR	2SC3395		
		< RESISTOR >			
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-017-00	METAL CHIP	47	5%	1/10W
R303	1-216-025-00	METAL CHIP	100	5%	1/10W
R304	1-216-073-00	METAL CHIP	10K	5%	1/10W
R305	1-216-097-00	METAL CHIP	100K	5%	1/10W
R306	1-216-097-00	METAL CHIP	100K	5%	1/10W
R308	1-216-085-00	METAL CHIP	33K	5%	1/10W
R309	1-216-113-00	METAL CHIP	470K	5%	1/10W
R311	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R312	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R313	1-216-079-00	METAL CHIP	18K	5%	1/10W
R314	1-216-079-00	METAL CHIP	18K	5%	1/10W
R315	1-216-093-00	METAL CHIP	68K	5%	1/10W
R316	1-216-093-00	METAL CHIP	68K	5%	1/10W
R317	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R318	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R322	1-216-097-00	METAL CHIP	100K	5%	1/10W
R323	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R324	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R325	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R326	1-216-097-00	METAL CHIP	100K	5%	1/10W
R327	1-216-073-00	METAL CHIP	10K	5%	1/10W
R328	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R329	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R330	1-216-049-00	METAL CHIP	1K	5%	1/10W
R331	1-216-097-00	METAL CHIP	100K	5%	1/10W
R332	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R333	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R334	1-216-105-00	METAL CHIP	220K	5%	1/10W
R335	1-216-049-00	METAL CHIP	1K	5%	1/10W
R336	1-216-049-00	METAL CHIP	1K	5%	1/10W
R337	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R338	1-216-065-00	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R341	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R342	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R343	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R344	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R346	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R347	1-216-049-00	METAL CHIP	1K	5%	1/10W
R348	1-216-049-00	METAL CHIP	1K	5%	1/10W
R349	1-216-049-00	METAL CHIP	1K	5%	1/10W
R350	1-216-049-00	METAL CHIP	1K	5%	1/10W
R351	1-216-001-00	METAL CHIP	10	5%	1/10W
R352	1-216-017-00	METAL CHIP	47	5%	1/10W
R353	1-216-025-00	METAL CHIP	100	5%	1/10W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R355	1-216-097-00	METAL CHIP	100K	5%	1/10W
R356	1-216-097-00	METAL CHIP	100K	5%	1/10W
R358	1-216-085-00	METAL CHIP	33K	5%	1/10W
R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R360	1-216-041-00	METAL CHIP	470	5%	1/10W
R361	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R362	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R363	1-216-079-00	METAL CHIP	18K	5%	1/10W
R364	1-216-079-00	METAL CHIP	18K	5%	1/10W
R365	1-216-093-00	METAL CHIP	68K	5%	1/10W
R366	1-216-093-00	METAL CHIP	68K	5%	1/10W
R367	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R368	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R370	1-216-009-00	METAL CHIP	22	5%	1/10W
R371	1-216-009-00	METAL CHIP	22	5%	1/10W
R372	1-216-097-00	METAL CHIP	100K	5%	1/10W
R373	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R374	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R375	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R376	1-216-097-00	METAL CHIP	100K	5%	1/10W
R377	1-216-073-00	METAL CHIP	10K	5%	1/10W
R378	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R379	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R380	1-216-049-00	METAL CHIP	1K	5%	1/10W
R381	1-216-097-00	METAL CHIP	100K	5%	1/10W
R382	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R383	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R384	1-216-105-00	METAL CHIP	220K	5%	1/10W
R385	1-216-049-00	METAL CHIP	1K	5%	1/10W
R386	1-216-049-00	METAL CHIP	1K	5%	1/10W
R387	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R388	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R390	1-216-041-00	METAL CHIP	470	5%	1/10W
R391	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R392	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R393	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R394	1-216-049-00	METAL CHIP	1K	5%	1/10W
R396	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R399	1-216-295-11	METAL GLAZE	0	5%	1/10W
R403	1-216-080-00	METAL CHIP	20K	5%	1/10W
R404	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R411	1-216-097-00	METAL CHIP	100K	5%	1/10W
R412	1-216-097-00	METAL CHIP	100K	5%	1/10W
R413	1-216-049-00	METAL CHIP	1K	5%	1/10W
R416	1-216-049-00	METAL CHIP	1K	5%	1/10W
R418	1-216-049-00	METAL CHIP	1K	5%	1/10W
R426	1-216-041-00	METAL CHIP	470	5%	1/10W
R427	1-216-025-00	METAL CHIP	100	5%	1/10W
R436	1-216-121-00	METAL CHIP	1M	5%	1/10W
R437	1-216-121-00	METAL CHIP	1M	5%	1/10W
R438	1-216-121-00	METAL CHIP	1M	5%	1/10W
R439	1-216-121-00	METAL CHIP	1M	5%	1/10W
R440	1-216-121-00	METAL CHIP	1M	5%	1/10W
R441	1-216-081-00	METAL CHIP	22K	5%	1/10W
R442	1-216-081-00	METAL CHIP	22K	5%	1/10W
R443	1-216-049-00	METAL CHIP	1K	5%	1/10W
R451	1-216-097-00	METAL CHIP	100K	5%	1/10W
R452	1-216-097-00	METAL CHIP	100K	5%	1/10W
R453	1-216-080-00	METAL CHIP	20K	5%	1/10W
R454	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R467	1-216-080-00	METAL CHIP	20K	5%	1/10W
R468	1-216-073-00	METAL CHIP	10K	5%	1/10W
R469	1-216-107-00	METAL CHIP	270K	5%	1/10W
R470	1-216-073-00	METAL CHIP	10K	5%	1/10W
R471	1-216-077-00	METAL CHIP	15K	5%	1/10W
R472	1-216-083-00	METAL CHIP	27K	5%	1/10W
R473	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R474	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R475	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R476	1-216-107-00	METAL CHIP	270K	5%	1/10W
R477	1-216-081-00	METAL CHIP	22K	5%	1/10W
R479	1-216-031-00	METAL CHIP	180	5%	1/10W
R480	1-216-075-00	METAL CHIP	12K	5%	1/10W
R481	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R482	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R483	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R485	1-216-295-11	METAL GLAZE	0	5%	1/10W
R486	1-216-295-11	METAL GLAZE	0	5%	1/10W
R491	1-216-049-00	METAL CHIP	1K	5%	1/10W
R492	1-216-049-00	METAL CHIP	1K	5%	1/10W
R493	1-216-049-00	METAL CHIP	1K	5%	1/10W
R494	1-216-049-00	METAL CHIP	1K	5%	1/10W
R495	1-216-049-00	METAL CHIP	1K	5%	1/10W
R496	1-216-049-00	METAL CHIP	1K	5%	1/10W
R497	1-216-049-00	METAL CHIP	1K	5%	1/10W

SURROUND | SYSTEM POWER | TRANSFORMER TERMINAL (1) | TRANSFORMER TERMINAL (2) | TRANSFORMER TERMINAL (3) | TUNER VIDEO

Ref.No.	Part No.	Description			Remark
R498	1-216-033-00	METAL CHIP	220	5%	1/10W
R499	1-216-041-00	METAL CHIP	470	5%	1/10W
		< CRYSTAL >			
X402	1-567-970-11	VIBRATOR, CRYSTAL (24.576MHz)			
**********					
*	1-648-656-11	SYSTEM POWER BOARD			
		**********			
		< CONNECTOR >			
* CNS202	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
		< SWITCH >			
S244	1-554-303-21	SWITCH, TACTILE (POWER)			
**********					
*	1-644-271-11	TRANSFORMER TERMINAL (1) BOARD			
		**********			
		< CONNECTOR >			
* CNP971	1-564-506-11	PLUG, CONNECTOR 3P			
CNP972	1-564-104-00	PIN, CONNECTOR 3P			
CNP973	1-564-321-00	PIN, CONNECTOR 2P			
		< DIODE >			
D150	8-719-014-82	DIODE UZP-6.8B			
		< FUSE >			
⚠F951	1-576-109-11	FUSE (5A/125V)			
⚠F953	1-576-109-11	FUSE (5A/125V)			
**********					
*	1-644-272-11	TRANSFORMER TERMINAL (2) BOARD			
		**********			
	1-533-225-11	HOLDER, FUSE			
		< CONNECTOR >			
CNP970	1-564-242-00	PIN, CONNECTOR 5P			
* CNP974	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D966	8-719-987-63	DIODE 1N4148M			
		< FUSE >			
⚠F952	1-576-108-11	FUSE (4A/125V)			
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A/125V)			
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A/125V)			

Ref.No.	Part No.	Description			Remark
		< RELAY >			
RY951	1-515-894-11	RELAY			
**********					
*	1-644-273-11	TRANSFORMER TERMINAL (3) BOARD			
		**********			
**********					
*	A-4347-954-A	TUNER VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-124-477-11	ELECT	47uF	20%	25V
C3	1-161-379-00	CERAMIC	0.01uF	20%	25V
C4	1-162-294-31	CERAMIC	0.001uF	10%	50V
C5	1-161-379-00	CERAMIC	0.01uF	20%	25V
C6	1-161-379-00	CERAMIC	0.01uF	20%	25V
C11	1-164-097-11	CERAMIC	0.022uF		50V
C21	1-161-021-11	CERAMIC	0.047uF	10%	25V
C22	1-161-379-00	CERAMIC	0.01uF	20%	25V
C23	1-124-477-11	ELECT	47uF	20%	25V
C24	1-123-382-00	ELECT	3.3uF	20%	100V
C25	1-161-379-00	CERAMIC	0.01uF	20%	25V
C26	1-161-329-00	CERAMIC	0.0068uF	30%	16V
C27	1-162-282-31	CERAMIC	100PF	10%	50V
C28	1-124-903-11	ELECT	1uF	20%	50V
C30	1-124-903-11	ELECT	1uF	20%	50V
C31	1-124-902-00	ELECT	0.47uF	20%	50V
C32	1-124-463-00	ELECT	0.1uF	20%	50V
C33	1-130-482-00	MYLAR	0.0082uF	5%	50V
C34	1-123-382-00	ELECT	3.3uF	20%	100V
C35	1-130-482-00	MYLAR	0.0082uF	5%	50V
C36	1-123-382-00	ELECT	3.3uF	20%	100V
C37	1-124-907-11	ELECT	10uF	20%	50V
C39	1-161-379-00	CERAMIC	0.01uF	20%	25V
C40	1-124-463-00	ELECT	0.1uF	20%	50V
C41	1-124-927-11	ELECT	4.7uF	20%	100V
C42	1-161-379-00	CERAMIC	0.01uF	20%	25V
C43	1-126-176-11	ELECT	220uF	20%	10V
C44	1-161-379-00	CERAMIC	0.01uF	20%	25V
C45	1-123-382-00	ELECT	3.3uF	20%	100V
C46	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C48	1-123-382-00	ELECT	3.3uF	20%	100V
C49	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C51	1-124-477-11	ELECT	47uF	20%	25V
C61	1-161-494-00	CERAMIC	0.022uF		25V
C63	1-161-494-00	CERAMIC	0.022uF		25V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
C81	1-102-953-00	CERAMIC	18PF	5%	50V
C82	1-102-953-00	CERAMIC	18PF	5%	50V
C83	1-161-379-00	CERAMIC	0.01uF	20%	25V
C84	1-161-379-00	CERAMIC	0.01uF	20%	25V
C85	1-161-379-00	CERAMIC	0.01uF	20%	25V
C86	1-124-477-11	ELECT	47uF	20%	25V
C87	1-161-379-00	CERAMIC	0.01uF	20%	25V
C88	1-161-379-00	CERAMIC	0.01uF	20%	25V
C89	1-124-925-11	ELECT	2.2uF	20%	100V
C90	1-124-463-00	ELECT	0.1uF	20%	50V
C91	1-161-379-00	CERAMIC	0.01uF	20%	25V
C92	1-161-379-00	CERAMIC	0.01uF	20%	25V
C93	1-124-477-11	ELECT	47uF	20%	25V
C101	1-124-903-11	ELECT	1uF	20%	50V
C102	1-124-903-11	ELECT	1uF	20%	50V
C103	1-124-472-11	ELECT	470uF	20%	10V
C104	1-124-472-11	ELECT	470uF	20%	10V
C108	1-164-159-11	CERAMIC	0.1uF		50V
C109	1-124-120-11	ELECT	220uF	20%	25V
C110	1-124-903-11	ELECT	1uF	20%	50V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC			
CF21	1-577-075-11	OSCILLATOR, CERAMIC			
		< COMPOSITION CIRCUIT BLOCK >			
CFT21	1-404-853-11	TRANSFORMER, IF(CERAMIC FILTER)			
		< CONNECTOR >			
* CNS1	1-691-183-11	CONNECTOR (BOARD TO BOARD) 13P			
		< FRONT END >			
FE1	1-693-201-11	FRONT END, FM			
FE61	1-236-461-11	ENCAPSULATED COMPONENT			
		< IC >			
IC10	8-759-821-45	IC LA1851N			
IC11	8-759-175-87	IC LC7218-ST			
IC101	8-759-061-95	IC SN761200N			
		< JACK >			
J101	1-568-751-51	JACK, PIN (2P SHIELD TYPE) (MONITOR VIDEO OUT/VIDEO 1 VIDEO IN)			
J102	1-568-751-51	JACK, PIN (2P SHIELD TYPE) (VIDEO 1 VIDEO OUT/VIDEO 2 VIDEO IN)			

Ref. No.	Part No.	Description				Remark
		< COIL >				
L1	1-410-521-11	INDUCTOR	100uH			
L21	1-410-171-11	INDUCTOR	1mH			
		< FILTER >				
LPF21	1-235-221-00	FILTER, LOW PASS				
		< TRANSISTOR >				
Q1	8-729-230-99	TRANSISTOR	2SC2669-OY			
Q2	8-729-230-99	TRANSISTOR	2SC2669-OY			
Q21	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q22	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q23	8-729-900-61	TRANSISTOR	DTA114ES			
Q24	8-729-900-36	TRANSISTOR	DTC124ES			
Q25	8-729-900-36	TRANSISTOR	DTC124ES			
Q81	8-729-900-61	TRANSISTOR	DTA114ES			
Q82	8-729-900-36	TRANSISTOR	DTC124ES			
Q83	8-729-202-67	TRANSISTOR	2SK246-GR3			
Q84	8-729-230-93	TRANSISTOR	2SC3113-AB			
Q101	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q102	8-729-119-76	TRANSISTOR	2SA1175-HFE			
		< RESISTOR >				
⚠R1	1-247-811-31	CARBON	150	5%	1/4W	F
R3	1-249-411-11	CARBON	330	5%	1/4W	
R4	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-249-432-11	CARBON	18K	5%	1/4W	
R7	1-249-411-11	CARBON	330	5%	1/4W	
R8	1-249-414-11	CARBON	560	5%	1/4W	
R9	1-249-434-11	CARBON	27K	5%	1/4W	
⚠R21	1-247-807-31	CARBON	100	5%	1/4W	F
R22	1-249-428-11	CARBON	8.2K	5%	1/4W	
R23	1-249-417-11	CARBON	1K	5%	1/4W	
R24	1-249-435-11	CARBON	33K	5%	1/4W	
R25	1-249-428-11	CARBON	8.2K	5%	1/4W	
R27	1-249-432-11	CARBON	18K	5%	1/4W	
R28	1-249-423-11	CARBON	3.3K	5%	1/4W	
R29	1-249-429-11	CARBON	10K	5%	1/4W	
R31	1-249-413-11	CARBON	470	5%	1/4W	
R32	1-249-429-11	CARBON	10K	5%	1/4W	
R33	1-249-429-11	CARBON	10K	5%	1/4W	
R35	1-249-437-11	CARBON	47K	5%	1/4W	
R37	1-247-891-00	CARBON	330K	5%	1/4W	
R39	1-249-423-11	CARBON	3.3K	5%	1/4W	
R40	1-249-420-11	CARBON	1.8K	5%	1/4W	
R41	1-249-426-11	CARBON	5.6K	5%	1/4W	
R42	1-247-891-00	CARBON	330K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TUNER VIDEO VOLUME

Ref.No.	Part No.	Description				Remark
R44	1-249-423-11	CARBON	3.3K	5%	1/4W	
R45	1-249-420-11	CARBON	1.8K	5%	1/4W	
R46	1-249-426-11	CARBON	5.6K	5%	1/4W	
⚠R47	1-249-409-11	CARBON	220	5%	1/4W	F
R61	1-249-441-11	CARBON	100K	5%	1/4W	
R62	1-249-437-11	CARBON	47K	5%	1/4W	
R63	1-249-397-11	CARBON	22	5%	1/4W	
R64	1-249-417-11	CARBON	1K	5%	1/4W	
R70	1-249-423-11	CARBON	3.3K	5%	1/4W	
R71	1-249-414-11	CARBON	560	5%	1/4W	
R72	1-249-417-11	CARBON	1K	5%	1/4W	
R73	1-249-410-11	CARBON	270	5%	1/4W	
R74	1-249-425-11	CARBON	4.7K	5%	1/4W	
R75	1-249-421-11	CARBON	2.2K	5%	1/4W	
R76	1-249-425-11	CARBON	4.7K	5%	1/4W	
R77	1-247-807-31	CARBON	100	5%	1/4W	
R78	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R79	1-247-811-31	CARBON	150	5%	1/4W	F
R81	1-249-417-11	CARBON	1K	5%	1/4W	
R82	1-249-417-11	CARBON	1K	5%	1/4W	
R83	1-249-417-11	CARBON	1K	5%	1/4W	
R84	1-249-417-11	CARBON	1K	5%	1/4W	
R85	1-249-429-11	CARBON	10K	5%	1/4W	
R86	1-249-417-11	CARBON	1K	5%	1/4W	
R87	1-249-429-11	CARBON	10K	5%	1/4W	
R88	1-249-425-11	CARBON	4.7K	5%	1/4W	
R89	1-249-417-11	CARBON	1K	5%	1/4W	
R91	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R92	1-249-401-11	CARBON	47	5%	1/4W	F
R101	1-247-804-11	CARBON	75	5%	1/4W	
R102	1-247-804-11	CARBON	75	5%	1/4W	
R103	1-247-804-11	CARBON	75	5%	1/4W	
R104	1-249-429-11	CARBON	10K	5%	1/4W	
R105	1-247-804-11	CARBON	75	5%	1/4W	
R106	1-249-429-11	CARBON	10K	5%	1/4W	
R109	1-247-807-31	CARBON	100	5%	1/4W	
R110	1-247-807-31	CARBON	100	5%	1/4W	
R113	1-247-807-31	CARBON	100	5%	1/4W	
R114	1-247-807-31	CARBON	100	5%	1/4W	
R115	1-249-433-11	CARBON	22K	5%	1/4W	
R116	1-249-433-11	CARBON	22K	5%	1/4W	
R117	1-249-433-11	CARBON	22K	5%	1/4W	
R129	1-247-804-11	CARBON	75	5%	1/4W	
		< VARIABLE RESISTOR >				
RV21	1-241-628-11	RES, ADJ, CARBON 2.2K (FM STEREO SEPARATION)				
RV22	1-241-631-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)				
RV24	1-241-631-11	RES, ADJ, CARBON 22K (FM TUNING LEVEL)				
RV25	1-241-631-11	RES, ADJ, CARBON 22K (AUTO STOP LEVEL)				
		< TRANSFORMER >				
T21	1-404-807-11	TRANSFORMER, DISCRIMINATOR				
		< TERMINAL >				
* TM1	1-562-907-11	CONNECTOR, F-J				
TM2	1-536-707-00	TERMINAL BOARD, PUSH 2P				
		< TEST PIN >				
* TP1	1-560-060-00	PIN, CONNECTOR 2P				
		< CRYSTAL >				
XT81	1-579-585-11	VIBRATOR, CRYSTAL (7.2MHz)				
**********						
*	1-644-265-11	VOLUME BOARD				
		**********				
		< CAPACITOR >				
C401	1-124-903-11	ELECT	1uF	20%	50V	
C402	1-124-903-11	ELECT	1uF	20%	50V	
		< CONNECTOR >				
CNP451	1-691-769-11	PLUG (MICRO CONNECTOR) 7P				
		< CONNECTOR >				
* CNS450	1-691-177-11	CONNECTOR (BOARD TO BOARD) 7P				
* CNS453	1-568-824-11	SOCKET, CONNECTOR 5P				
		< RESISTOR >				
R401	1-247-811-31	CARBON	150	5%	1/4W	
		< VARIABLE RESISTOR >				
RV402	1-241-563-11	RES, VAR, CARBON 100KX4 (MASTER VOLUME)				
**********						

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
8	1-690-091-11	WIRE, FLAT TYPE (21 CORE)	
⚠58	1-575-975-11	CORD, POWER	
62	1-696-073-21	LEAD (WITH CONNECTOR) (2 CORE)	
67	1-751-801-11	WIRE (FLAT TYPE) (7 CORE)	
110	1-575-848-11	WIRE, FLAT TYPE (5 CORE)	
111	1-696-550-11	WIRE (FLAT TYPE) (33 CORE)	
⚠T902	1-423-643-11	TRANSFORMER, POWER	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-501-374-11	ANTENNA, LOOP	
	1-590-925-31	CORD, CONNECTION	
	1-693-099-11	COMMANDER, STANDARD (RM-U221)	
	3-757-810-21	MANUAL, INSTRUCTION(ENGLISH)	
	4-925-079-01	COVER (6), BATTERY	
	4-933-001-01	CUSHION	
*	4-963-155-01	INDIVIDUAL CARTON	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-682-547-09	SCREW +BVTT 3X6 (S)	
#3	7-682-561-04	SCREW +BVTT 4X8 (S)	
#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#5	7-621-775-00	SCREW +B 2.6X3	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-959-242-11

Sony Corporation
Audio Group

English
93J0229-1
Printed in Japan
©1993.10
Published by Audio Sector Quality Assurance Dept.

STR-D1011S

SONY

SERVICE MANUAL

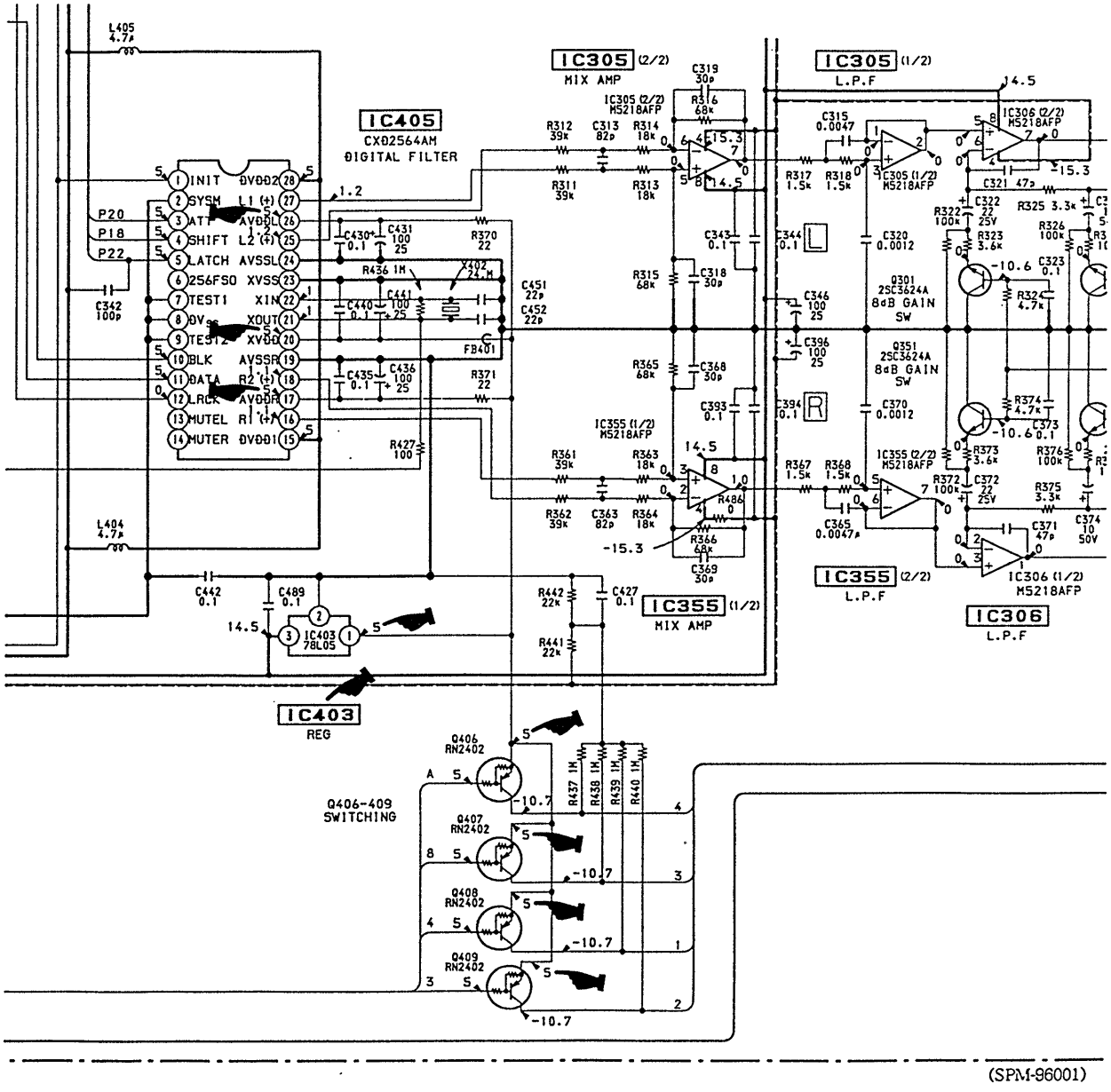
US Model

CORRECTION-1

Correct your service manual as shown below.

Page 31

: Indicates corrected portion.



(SPM-96001)

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

9-959-242-91

English
Printed in U.S.A

©1996.2